

Magnitude 7 Metals, LLC.

P.O. Box 395 391 St. Jude Industrial Park Marston, MO 63866 Tel (573) 643-0023 Fax (573) 643-0016

43-0008

January 9, 2019

Missouri Department of Natural Resources Air Pollution Control Program Operating Permit Unit 1659 East Elm P.O. Box 176 Jefferson City, MO 65101-0176

VIA UPS

Enclosed please find two (2) copies of the Part 70 Operating Permit renewal application for Magnitude 7 Metals, LLC plant located in New Madrid, Missouri. This is an updated application as requested by the Department to update the original application submitted by the previous owner (Noranda Aluminum) on October 10, 2005. Also enclosed is check #3228 in the amount of \$6000 to cover the cost of the filing fee for the permit.

If you have any questions, you can contact me at (573) 643-0023 or by e-mail at don.backfisch@magnitude7metals.com.

Sincerely,

Don Backfisch

Environmental Director

DB:file

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	FOR OFFICE USE ONLY						
	t U	ninu	L PGM	FILING FEE			
				CHECK NUMBER		CHECK RECEIVED	
				3228		1-10-19	
MISSOURI DEPARTMENT OF N. AIR POLLUTION CONTROL PRO		URCES	* * * * * * * * * * * * * * * * * * * *	CHECK AMOUNT	2	CHECK DATE /- 9-/9	
APPLICATION FOR AUTH	ORITY TO O	PERA	ITE Lh	PROJECT NUMBE	R 2019-1	01-016	
NOTE: Please read all instructions to complete	forms properly.				4. 6		
FORM OP-A01 – Section A				The state of the s			
A01.00 – GENERAL APPLICATION INFORMA All applications MUST be accompanied by a filling		of 4	ao filina fao ah	all be as Indicat	od in 10 C	SD 10	
6.065/5)(B)1.D or 10 CSR 10-6.065(6)(B)1.D.	ng ree. The anno	untoru	ie ining lee si	iali be as iliulcai	eu in 10 C	3K 10-	
6.065(5)(B)1.D or 10 CSR 10-6.065(6)(B)1.D. 1. INSTALLATION NAME		FIPS		PLANT NUMBER		YEAR SUBMITTED	
Magnitude 7 Metals, LLC		143		8000		2019	
INSTALLATION STREET ADDRESS		<u> </u>		COUNTY NAME	OF INSTALLAT	ION	
391 St Jude Industrial Park				New Madrid			
CITY OF INSTALLATION STREET ADDRESS	STATE	ZIP (CODE	INSTALLATION :	TELEPHONE NI	UMBER WITH AREA CODE	
Marston	мо	6386	66	(573) 643-00)23		
INSTALLATION MAILING ADDRESS				l`		VITH AREA CODE	**********
P.O. Box 395							
CITY OF MAILING ADDRESS FOR INSTALLATION	STATE	ZIP	CODE	MO SENATORIA	L DISTRICT NU	JMBER	
Marston	MO	63866		25			
INSTALLATION CONTACT PERSON				MO REPRESEN	TATIVE DISTRIC	CT NUMBER	
Mr. Don Backfisch				149			
INSTALLATION CONTACT'S TITLE			U OF CONTACT DE	RSON FOR INSTALLA	TION		
Environmental Superintendent	***************************************	Ì	_	agnitude7metal	s.com		·
2. PARENT COMPANY NAME		MAIL	ING ADDRESS OF I	PARENT COMPANY			
						4-1-200	
PARENT COMPANY CITY				STATE		ZIP CODE	
PARENT COMPANY CONTACT PERSON	Will Mile Type of the Party of		TELEPHONE NUM	IBER WITH AREA COL	E OF PARENT	COMPANY CONTACT	
TITLE OF CONTACT PERSON FOR PARENT COMPANY			EMAIL OF CONTA	CT PERSON FOR PAR	ENT COMPANY	Y	
3. TYPE OF APPLICATION				Constitution of the Consti	et in a Karla		
✓ PART 70 (MAJOR)							
∐ Initial	Off-Permit C	_		granus and	odification		
Renewal	Administrativ	/e Ame	ndment	Significa	nt Modifica	ition	
☐ INTERMEDIATE STATE	<u>-</u>						
∐ Initial	Renewal		····	Amendm	ient		
☐ BASIC STATE							
Initial	Renewal			Amendm	ent		
4. APPLICANT'S CERTIFICATION STATEM	The second contract of						
"I certify, based on information and belief formed	d after reasonab	le inqui	ry, the statem	ents and inform	ation in this	s document are tru	е,
accurate and complete." SIGNATURE OF RESPONSIBLE OFFICIAL OF COMPANY					DATE	101.0	
1.1/1/2010	-				1/	'9/19	
TYPE OF PRINT NAME OF RESPONSIBLE OFFICIAL				TELEPHONE NUMBE	R WITH AREA	CODE OF OFFICIAL	
Steve Rusche				(573) 643-0023	;		
OFFICIAL TITLE OF DESCRIPTION E OFFICIAL			DECDONORIS	CEEIOIALIO ENAM			

coo

MO 780-1519 (01/17)

Page 1 of 58

steve.rusche@magnitude7metals.com

		- APPLICATION FOR AUTHORITY TO OPE CATION FOR AUTHORITY TO OPERATE	RATE -	SECTION A		
	ATION NAME	DATION FOR AUTHORITY TO OF LINATE	FIPS		PLANT NUMBER	YEAR SUBMITTED
_	ıde 7 Meta		143		0008	2019
1. LIS	TTHEINS	STALLATION'S PRINCIPAL PRODUCT(S) PRINCIPAL PRODUCT(S)	S)			TWO-DIGIT SIC CODE
Alumini	ım allov ex	ctrusion billets, ingots, rods	- /			33
				A A A A A A A A A A A A A A A A A A A		
2 115	TALL OF	THE INSTALLATION'S PROCESSES				
	3 (1) F. 13 (m) (m) (1) (m) (1) (1)	PROCESSES				TWO-DIGIT SIC CODE
		Primary Aluminum Reduct	ion			33
		Rod Milling				33
		Secondary Aluminum Produ	iction			33
	:				***************************************	
3. HAS	S THE INS	TALLATION SUBMITTED AN EMISSION H	VVENTO	RY QUESTI	ONNAIRE, OR EIQ,	IN THE PAST FIVE YEARS?
YES [Z NO	If No, submit one copy of a completed	EIQ with	n this applicat	tion and complete the	e table below.
If No, i	indicate the	e number of each EIQ form submitted with th	e applic	ation.		
	1.1	Process Flow Diagram		2.3	VOC Process Mass	s-Balance Worksheet
ļ	1.2	Summary of Emission Points		2.4	Petroleum Loading	Worksheet
	2.0	Emission Point Information		2.5	Organic Liquid Sto	rage-Fixed Roof Tank
	2.0C	Control Device Information		2.5L	General Liquid Sto	rage Tank Information
	2.0P	Portable Plant Information		2.6	Organic Liquid Sto	orage-Floating Roof Tank
	2.08	Stack Information		2.7	Haul Road Fugitive	e Emissions Worksheet
	2.0Z	Ozone Season Information		2.8	Storage Pile Works	sheet
	2.1	Fuel Combustion Worksheet		2.9	Stack Test/Continu Worksheet	uous Emission Monitoring
	2.2	Incinerator Worksheet		2.T	Hazardous Air Poll	
4. INC	DICATE TH	TE NUMBER OF EACH APPLICATION FOR	RM, LIST	ED BELOW		
1	C01.00	Insignificant Activities Required To Be Listed	N/A	D03.20	Combustion Turbin Engines	nes and Internal Combustion
4	D01.00	Existing Plant-Wide Conditions	N/A	D03.30	Spray Booths	
1	D02.00	Proposed Plant-Wide Conditions	N/A	D04.00	Alternate Operating Conditions	g Scenario/Voluntary
33	D03.00	General Emission Unit	1	D05.00	Compliance Deter	mination
N/A	D03,10	Indirect Heating Sources	4	F01.00	General Commen	ts
MO 780-15	519 (01-17)					

			LICABLE REQUIREM		IST – SECTION	В	
			LE REQUIREMENTS C	HECKLIST			T 0-13
	ATION NA				FIPS	PLANT NO.	YEAR SUBMITTED
Magniti	ude 7 N	/letals, Ll	_C		143	8000	2019
			(NOTE		TATE OF MISSO		
1. ST	ATE A	DMINIST	RATIVE PERMIT REQ	JIREMENTS			
	,	ABILITY	TITLE			ORGANIZATION	
YES	NO X	REASO	10 CSR 10-6.01	0 Ambiont A	ir Quality Standa		
X	-	J	10 CSR 10-6.02		and Common R		
$-\hat{x}$		1	10 CSR 10-6.02			Pollution Sources 1	
^	Х	J	10 CSR 10-6.04			Ollution Cources	
Х	<u> </u>		10 CSR 10-6.30			eral Actions to State Imple	ementation Plans 1
$\frac{\hat{x}}{x}$		1 .i	10 CSR 10-6.32		Exemption ²	oral riodono to otato impie	montation i tano
	RE PE	RMIT RE	QUIREMENTS				
	TITLE				ORGANI	ZATION	
	SR 10-		Start-Up, Shutdown, ar	nd Malfunction C	Conditions 1		
	SR 10-		Construction Permits R	equired '	***************************************		
	SR 10- SR 10-		Operating Permits ¹ Submission of Emission	n Data Emissis	n Eage and Drag	acc Information	
	SR 10-		Controlling during Epis			ess imonnation	
	SR 10-		Restrictions of Emissio	ns Credit for Re	duced Pollutant	Concentrations from the u	se of Dispersion Techniques ¹
	SR 10-		Circumvention 1			4	
	SR 10-					ond the Premises of Origin	1 ¹
	SR 10-		Measurement of Emiss		aminants '		
	<u>SR 10-</u> SR 10-		Confidential Information Administrative Penaltie				
	SR 10-				tion Accreditatio	n, and Business Exemption	on Requirements 2
	SR 10-		Compliance Monitoring		tion, 7 toor caltaile	n, and Business Exempli	on requirements
			LE REQUIREMENTS				
AF YES	PLICA	BILITY REASON	TITLE			ORGANIZATION	
х			10 CSR 10-6.070	New Source F OP-BO2.00) 2		ulations (NOTE: if yes, ch	neck specific subpart on Form
х			10 CSR 10-6.075	subpart Form	OP-BO3.00) ²		NOTE: if yes, check specific
х			10 CSR 10-6,080		ndards for Hazar OP-BO4.00) ²	dous Air Pollutants (NOTE	E: if yes, check specific
Х			10 CSR 10-6.090				inum Reduction Installations ¹
		С	10 CSR 10-6.100	Alternate Emi	ssion Limits For	Ozone Nonattainment Are	eas ²
		В	10 CSR 10-6.120				nelter-Refinery Installations ¹
	X	В	10 CSR 10-6.200	<u> </u>		/aste Incinerators 1	
<u> </u>			10 CSR 10-6.220			ole Air Contaminants 1	**************************************
Х			10 CSR 10-6.240	Requirements	s ²	—Registration, Notification	n and Performance
Х			10 CSR 10-6.260		Emission of Sulf		
		В	10 CSR 10-6.270	Applications to	o the EPA ²	uired – If Applicable, Sub	
		В	10 CSR 10-6,310			Municipal Solid Waste La	
		В	10 CSR 10-6.330			Batch-Type Charcoal Kilr	
	X	В	10 CSR 10-6.350			sions Trading of Oxides of	
		E	10 CSR 10-6.360	Control of NO Generating Bo	x Emissions Froi oilers ²	m Electric Generating Uni	ts and Non-Electric
		E	10 CSR 10-6.380	 		m Portland Cement Kilns	
	X	E	10 CSR 10-6.390			m Large Stationary Intern	
X			10 CSR 10-6.400			iculate Matter From Indus	
X			10 CSR 10-6.405	Restriction of Indirect Heating		er Emissions From Fuel B	urning Equipment Used for
	X	С	10 CSR 10-6.410		nking and Tradin	g	

¹ Federal, state and local agency enforceable regulation.

² State and local agency enforceable regulation.

MO 780-1519 (01-17)

FORM OP-B02 - APPLICABLE REQUIREMENTS CHECKLIST - SECTION B B02.00 - APPLICABLE REQUIREMENTS CHECKLIST INSTALLATION NAME Magnitude 7 Metals, LLC Magnitude 7 Metals, LLC Magnitude 7 Metals, LLC

NEW SOURCE PERFORMANCE REGULATIONS - 10 CSR 10-6.070
(NOTE: IF CHECKED YES ON FORM OP-B01.00 FOR 10 CSR 10-6.070, PLEASE IDENTIFY SPECIFIC SUBPART. IF CHECKED NO.

		(NOTE: IF CHE	ECKED YES ON HIS FORM DOE	I FORM OP-B01.00 FOR 10 CSR 10-6.070, PLEASE IDENTIFY SPECIFIC SUBPART. IF CHECKED NO, S NOT NEED TO BE SUBMITTED. ALL STANDARDS ARE FEDERALLY ENFORCEABLE.)
		ABILITY	TITLE	ORGANIZATION
YES	NO	REASON	SUBPART	(40 CFR PART 60 NEW SOURCE PERFORMANCE STANDARDS)
X	<u> </u>	-	<u> </u>	General Provisions
	X	В	В	Adoption and Submittal of State Plans for Designated Facilities
	X	В	C	Emission Guidelines and Compliance Times
	ļ		Са	[Reserved]
	X	В	Cb	Emission Guidelines and Compliance Times for Municipal Waste Combusters that are
	Х	В	Сс	Constructed on or before December 19, 1995 Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills
	X	В	Cd	ł
	X	В	Ce	Emission Guidelines and Compliance Times for Sulfuric Acid Productions Units
	X	В	D	Emission Guidelines and Compliance Times for Hospital/Medical/Infectious Waste Incinerators Fossil-Fuel Fired Steam Generators (construction started after 8/17/71)
	}			<u> </u>
	X	В	Da	Electric Utility Steam Generating Units(construction started after 9/18/78)
	X	В	Db D.	Industrial-Commercial-Institutional Steam Generating Units
	X	В	Dc	Small Industrial-Commercial-Institutional Steam Generating Units
	X	В	E	Incinerators
	X	В	Ea	Municipal Waste Combustors Constructed Between 12/20/89 and 9/20/94
	X	В	Eb	Municipal Waste Combustors After 9/20/94
	X	В	Ec	Hospital/Medical/Infectious Waste Incinerators Constructed After 6-20-96
	X	В	F	Portland Cement Plants
	Х	В	G	Nitric Acid Plants
	X	В	Н	Sulfuric Acid Plants
	X	В	l	Hot Mix Asphalt Facilities
	Х	В	J	Petroleum Refineries
	Х	В	Ja	Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After May 14, 2007
	Х	В	К	Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978
	Х	В	Ka	Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984
•	Х	В	Kb	Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984
	Х	В	L	Secondary Lead Smelters
	Х	В	М	Secondary Brass and Bronze Production Plants
	Х	В	N	Primary Emissions from Basic Oxygen Process Furnaces(construction after 6/11/73
	Х	В	Na	Secondary Emissions from Basic Oxygen Process Steelmaking Facilities (Construction started after1/20/83)
	X	В	0	Sewage Treatment Plants
	X	В	P	Primary Copper Smelters
	X	В	Q	Primary Zinc Smelters
	X	В	R	Primary Lead Smelters
Х	 ^	U	S	Primary Aluminum Reduction Plants
	X	В	T	Phosphate Fertilizer Industry; Wet-Process Phosphoric Acid Plants
	X	В	Ú	Phosphate Fertilizer Industry; Superphosphoric Acid Plants
	X	В	V	Phosphate Fertilizer Industry; Diammonium Phosphate Plants
	X	В	w	
				Phosphate Fertilizer Industry; Triple Superphosphate Plants
	X	В	X	Phosphate Fertilizer Industry; Granular Triple Superphosphate Storage Facilities
	X	В		Coal Preparation Plants
	X	В	Z	Ferroalloy Production Facilities
	X	B B	AA AAa	Steel Plants Electric Arc Furnaces (Constructed from 11/21/74 to 8/17/83) Steel Plants Electric Arc Furnaces and Argon-oxygen Decarburization Vessels (Constructed
		D	AAd	after 8/7/83)
	Χ	В	BB	Kraft Pulp Mills
	Х	В	cc	Glass Manufacturing Plants
	Χ	В	DD	Grain Elevators
	Х	В	EE	Surface Coating of Metal Furniture
200	E40 (04 4			

FORM OP-B02 – APPLICABLE REQUIREMENTS CHECKLIST – SECTION B								
B02.00 – APPLICABLE REQUIREMENTS CHECKLIST								
INSTALLATION NAME	FIPS	PLANT NUMBER	YEAR SUBMITTED					
Magnitude 7 Metals, LLC	143	0008	2019					

NEW SOURCE PERFORMANCE REGULATIONS - 10 CSR 10-6.070 (CONTINUED)

(NOTE: IF CHECKED YES ON FORM OP-801.00 FOR 10 CSR 10-6.070, PLEASE IDENTIFY SPECIFIC SUBPART. IF CHECKED NO,

		BILITY	TITLE	S NOT NEED TO BE SUBMITTED. ALL STANDARDS ARE FEDERALLY ENFORCEABLE.) ORGANIZATION (40 CER DART CONTINUES DEPENDENT OF THE PROPERTY OF THE P
ES	NO	REASON	SUBPART	(40 CFR PART 60 NEW SOURCE PERFORMANCE STANDARDS)
			FF	[Reserved]
	X	В	GG	Stationary Gas Turbines
	Χ	В	HH	Lime Manufacturing Plants
	Χ	В	KK	Lead-Acid Battery Manufacturing
	Х	В	LL	Metallic Mineral Processing Plants
	Х	В	MM	Automobile and Light-Duty Truck Surface Coating Operations
	Х	В	NN	Phosphate Rock Plants
	Х	В	PP	Ammonium Sulfate Manufacture
	Х	В	QQ	Graphic Arts Industry; Publication Rotogravure Printing
	X	В	RR	Pressure Sensitive Tape and Label Surface Coating Operations
	$\frac{\hat{x}}{x}$	В	SS	Industrial Surface Coating Large Appliances
	X	В	TT	Metal Coil Surface Coating

	X	<u>B</u>	UU	Asphalt Processing and Asphalt Roofing Manufacture
	X	В	W	Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry
	Х	В	VVa	Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006
	X	В	ww	Beverage Can Surface Coating Industry
	Х	В	XX	Bulk Gasoline Terminals
	Х	В	AAA	New Residential Wood Heaters
	Х	В	BBB	Rubber Tire Manufacturing Industry
			CCC	[Reserved]
	X	В	DDD	Polymer Manufacturing Industry
		<u> </u>	EEE	[Reserved]
	~	<u> </u>	FFF	-
	X	В	 	Flexible Vinyl and Urethane Coating and Printing
	Х	В	GGG	Equipment Leaks of VOC in Petroleum Refineries
	Х	В	GGGa	Equipment Leaks of VOC in Petroleum Refineries for which Construction, Reconstruction, o
		n	1 11 11 1	Modification Commenced After November 7, 2006
	X	В	HHH	Synthetic Fiber Production Facilities
	Х	<u>B</u>	III	VOC Emissions from SOCMI Air Oxidation Unit Processes
	. X	В	JJJ	Petroleum Dry Cleaners
	Χ	В -	KKK	Equipment Leaks of VOC from Onshore Natural Gas Processing
	Х	В	LLL	Onshore Natural Gas Processing-SO ₂ Emissions
			MMM	[Reserved]
	Х	В	NNN	VOC Emissions from SOCMI Distillation Operations
	Χ	В	000	Nonmetallic Mineral Processing Plants
	Х	В	PPP	Wool Fiberglass Insulation Manufacturing Plants
	X	В	QQQ	VOC Emissions form Petroleum Refinery Wastewater Systems
	X	В	RRR	Synthetic Organic Chemical Manufacturing Reactor Processes
	X	В	SSS	Magnetic Tape Coating Facilities
		В		
••	X		TTT	Industrial Surface Coating of Plastic Parts for Business Machines
	X	В	UUU	Calciners and Dryers in Mineral Industries
	X	B	VVV	Polymeric Coating of Supporting Substrates Facilities
	Χ	В	www	Landfills
	Х	В	AAAA	Small Municipal Waste Combustion Units (started after 8/30/99, Modifications or Reconstruction after 6/6/01)
	Х	В	BBBB	Emission Guidelines and Compliance Times for Small Municipal Waste Combustion Units Constructed On or Before August 30, 1999
	х	В	cccc	Commercial and Industrial Solid Waste Incineration Units for Which Construction is Commenced After November 30, 1999 or for which Modification or Reconstruction is Commenced on or After June 1, 2001
	Х	В	DDDD	Emission Guidelines and Compliance Times for Commercial and Industrial Solid Waste Incineration Units Constructed on or Before 11-30-99
	Х	В	EEEE	Other Solid Waste Incineration Units for Which Construction is Commenced After December 9, 2004, or for Which Modification or Reconstruction is Commenced on or After June 16, 20

B02.0)0 – AF	PPLICABLE	REQUIREM	ENTS CHECKLIST					
INSTAL	LATION N	IAME			FIPS	PLANT NUMBER	YEAR SUBMITTED		
1agni	tude 7	Metals, LLC			143	0008	2019		
NEW SOURCE PERFORMANCE REGULATIONS - 10 CSR 10-6.070 (CONTINUED) (NOTE: IF CHECKED YES ON FORM 0P-B01.00 FOR 10 CSR 10-6.070, PLEASE IDENTIFY SPECIFIC SUBPART. IF CHECKED NO, THIS FORM DOES NOT NEED TO BE SUBMITTED. ALL STANDARDS ARE FEDERALLY ENFORCEABLE.)									
APPLICABILITY TITLE SUBPART				ORGANIZATION (40 CFR PART 60 NEW SOURCE PERFORMANCE STANDARDS)					
	Х	В	FFFF	Emission Guidelines and Compliance Times for Other Solid Waste Incineration Units that Commenced Construction On or Before December 9, 2004					
			GGGG	[Reserved]					
	Х	В	HHHH	Emission Guidelines ar	nd Compliance T	imes for Coal-Fired Electric	Steam Generating Units		
	Χ	В	1111	Standards of Performa	nce for Stationar	y Compression Ignition Inte	ernal Combustion Engines		
	Х	В	JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines					
	Χ	В	KKKK	Standards of Performance for Stationary Combustion Turbines					
	Х	В	LLLL	Standards of Performance for New Sewage Sludge Incineration Units					
	Х	В	MMMM	Emission Guidelines ar	nd Compliance T	imes for Existing Sewage S	Sludge Incineration Units		

FORM OP-B03 - APPLICABLE REQUIREMENTS CHECKLIST - SECTION B B03.00 - APPLICABLE REQUIREMENTS CHECKLIST INSTALLATION NAME Magnitude 7 Metals, LLC INSTALLATION NAME Magnitude 7 Metals, LLC INSTALLATION NAME Magnitude 7 Metals, LLC

MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY REGULATIONS - 10 CSR 10-6.075

(NOTE: IF CHECKED YES ON FORM OP-801.00 FOR 10 CSR 10-6.075, PLEASE IDENTIFY THE SPECIFIC SUBPART. IF YOU CHECKED NO.

THIS FORM DOES NOT NEED TO BE SUBMITTED. ALL STANDARDS ARE FEDERALLY ENFORCEABLE.)

	201104	DI ITY	HIS FURNI DUES I	OT NEED TO BE SUBMITTED. ALL STANDARDS ARE FEDERALLY ENFORCEABLE.)
A l YES	NO NO	BILITY REASON	TITLE SUBPART	ORGANIZATION (40 CFR PART 63 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES)
Χ			Α	General Provisions
	Х	В	В	Requirements for Control Technology Determinations for Major Sources in Accordance with
				Clean Air Act Sections, Sections 112(g) and 112(j)
	х	В	F	Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry
	х	В	G	Organic Hazardous Air Pollutants from the Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater
	X	В	Н	Organic Hazardous Air Pollutants for Equipment Leaks
	Х	В	1	Organic Hazardous Air Pollutants for Certain Process Subject to the Negotiated Regulation for Equipment Leaks
	Х	В	J	Polyvinyl Chloride Copolymers Production
			K	[Reserved]
	Х	В	L	Coke Oven Batteries
	Х	В	М	Perchloroethylene Air Emission for Dry Cleaning
		В	N1	Chromium Emissions from Hard and Decorative Chromium Electroplating and from
*********	Х	В	N .	Chromium Anodizing Tanks
	Х	В	0	Ethylene Oxide Emission for Sterilization Facilities
			Р	[Reserved]
	X	В	Q	Hazardous Air Pollutants for Industrial Process Cooling Towers
	Х	В	R	Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)
	X	В	S	Hazardous Air Pollutants from the Pulp and Paper Industry
	X	В	Т	Halogenated Solvent Cleaning
	X	В	U	Group I Polymers and Resins
			V	[Reserved]
	Х	В	W	Epoxy Resins Production and Non-Nylon Polyamides Production
	Х	В	Х	Hazardous Air Pollutants from Secondary Lead Smelting
	Х	В	Υ	National Emission Standards for Marine Vessel Loading and Unloading Operations
			Z	[Reserved]
	Х	В	AA	Hazardous Air Pollutants from Phosphoric Acid Manufacturing Plants
	Х	В	BB	Hazardous Air Pollutants from Phosphate Fertilizer Production Plants
	Х	В	CC	Hazardous Air Pollutants; Petroleum Refineries
	Х	В	DD	Off-Site Waste and Recovery Operations
	Х	В	EE	Magnetic Tape Manufacturing Operations
			FF	[Reserved]
	X	В	GG	National Emissions Standards for Aerospace Manufacturing and Rework Facilities
	Х	В	HH	Hazardous Air Pollutants from Oil and Natural Gas Production Facilities
	Х	В	II	National Emission Standards for Shipbuilding & Ship Repair (Surface Coating)
	Х	В	IJ	National Emission Standards for Wood Furniture Manufacturing Operations
	Х	В	KK	National Emission Standard for the Printing and Publishing Industry
X			LL	Hazardous Air Pollutants for Primary Aluminum Reduction Plants
	Х	В	MM	Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite, and Stand-Alone Semichemical Pulp Mills
	Х	В	00	Tanks—Level 1
	Х	В	PP	Containers
	X	В	QQ	Surface Impoundments
	X	В	RR	Individual Drain Systems
	Х	В	SS	Closed Vent Systems, Control Devices, Recovery Devices and Routing to a Fuel Gas System or a Process
	X	В	TT	Equipment Leaks—Control Level 1
	X	В.	υυ	Equipment Leaks—Control Level 2 Standards
	$\frac{\lambda}{x}$	В	W	Oil Water Separators and Organic-Water Separators
	X	В	ww	Storage Vessels (Tanks)—Control Level 2
			1	Did and Toolog (alma) College Editor E

FORM OP-B03 – APPLICABLE REQUIREMENTS CHECKLIST – SECTION B B03.00 – APPLICABLE REQUIREMENTS CHECKLIST INSTALLATION NAME Magnitude 7 Metals, LLC INSTALLAT

MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY REGULATIONS - 10 CSR 10-6.075

(NOTE: IF CHECKED YES ON FORM OP-801.00 FOR 10 CSR 10-6.075, PLEASE IDENTIFY THE SPECIFIC SUBPART. IF YOU CHECKED NO,
THIS FORM DOES NOT NEED TO BE SUBMITTED. ALL STANDARDS ARE FEDERALLY ENCORCEABLE.)

ADDITIONAL TO THE PROPERTY OF		TITLE SUBPART	ORGANIZATION (40 CFR PART 63 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES)
Х	В	YY	Hazardous Air Pollutants for Source Categories: Generic Maximum Available Control Technology Standards
		ZZ	[Reserved]
		AAA	[Reserved]
		BBB	[Reserved]
X	В	CCC	Steel Pickling – HCl Process Facilities and Hydrochloric Acid Regeneration Plants
X	В	DDD	Hazardous Air Pollutants for Mineral Wool Production
X	В	EEE	Hazardous Air Pollutants from Hazardous Waste Combustors
		FFF	[Reserved]
X	В	GGG	Pharmaceuticals Production
X	В	HHH	Hazardous Air Pollutants from Natural Gas Transmission and Storage Facilities
X	В	III	Hazardous Air Pollutants for Flexible Polyurethane Foam Production
X	В	JJJ	Hazardous Air Pollutant Emissions: Group IV Polymers and Resins
		KKK	[Reserved]
X	В	LLL	Hazardous Air Pollutants from the Portland Cement Manufacturing Industry
X	В	· MMM	Hazardous Air Pollutants for Pesticide Active Ingredient Production
X	В	NNN	Hazardous Air Pollutants for Wool Fiberglass Manufacturing
X	В	000	Manufacture of Amino/Phenolic Resins
X	В	PPP	Hazardous Air Pollutant Emissions for Polyether Polyols Production
$\frac{x}{x}$	В	QQQ	Primary Copper Smelting
x \		RRR	Secondary Aluminum Production
`		SSS	[Reserved]
Х	В	TTT	Hazardous Air Pollutants for Primary Lead Smelting
			Petroleum Refineries:Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur
X	В	UUU	Recovery Units
X	В	W	Hazardous Air Pollutants: Publicly Owned Treatment Works
		WWW	[Reserved]
Х	В	XXX	Hazardous Air Pollutants for Ferroalloys Production: Ferromanganese and Silicomanganese
Х	В	AAAA	Municipal Solid Waste Landfills
Х	В	cccc	Manufacturing of Nutritional Yeast
Х	В	DDDD	Plywood and Composite Wood Products
X	В	EEEE	Organic Liquids Distribution (non-gasoline)
X	В	FFFF	Miscellaneous Organic Chemical Manufacturing
X	В	GGGG	Solvent Extractions for Vegetable Oil Production
X	В	HHHH	Wet Formed Fiberglass Mat Production
X	В	8188	Surface Coating of Automobiles and Light Duty Trucks
X	В	JJJJ	Paper and Other Web Coating
X	В	KKKK	Surface Coating of Metal Cans
X	В	MMMM	Surface Coating of Miscellaneous Metal Parts and Products
X	В	NNNN	Surface Coating of Large Appliances
X	В	0000	Printing, Coating and Dyeing of Fabrics and Other Textiles
X	В	PPPP	Surface Coating of Plastic Parts and Products
$\frac{x}{x}$	В	QQQQ	Surface Coating of Wood Building Products
$\frac{\hat{x}}{x}$	В	RRRR	Surface Coating of Metal Furniture
$\frac{\lambda}{x}$	В	SSSS	Surface Coating of Metal Coil
$\frac{\lambda}{x}$	В	TITT	Leather Finishing Operations
$\frac{\hat{x}}{x}$	В	1 0000	Cellulose Products Manufacturing
$\frac{\hat{x}}{x}$	В	VVVV	Boat Manufacturing
$\frac{\hat{x}}{x}$	В	www	Reinforced Plastic Composites Production
$+\hat{x}$	В	XXXX	Rubber Tire Manufacturing
$\frac{\hat{x}}{x}$	В	YYYY	Stationary Combustion Turbines
	1 2	1	i almostory administration i unanto

FORM OP-B03 - APPLICABLE REQUIREMENTS CHECKLIST - SECTION B B03,00 - APPLICABLE REQUIREMENTS CHECKLIST INSTALLATION NAME Magnitude 7 Metals, LLC Magnitude 7 Metals, LLC Magnitude 7 Metals, LLC Magnitude 7 Metals, LLC Magnitude 7 Metals, LLC

MAXIMUM ACHIEVABLE CONTROL TECHNOLOGY REGULATIONS - 10 CSR 10-6.075

(NOTE: IF CHECKED YES ON FORM OP-B01.00 FOR 10 CSR 10-6.075, PLEASE IDENTIFY THE SPECIFIC SUBPART. IF YOU CHECKED NO, THIS FORM DOES NOT NEED TO BE SUBMITTED. ALL STANDARDS ARE FEDERALLY ENFORCEABLE.)

ADDI ICA	DII ITV	TITLE	ORGANIZATION (40 CFR PART 63 NATIONAL EMISSION STANDARDS FOR
SUBPART SUBPART			HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES)
Х	В	AAAAA	Lime Manufacturing Plants
Х	В	BBBBB	Semiconductor Manufacturing
Х	В	CCCCC	Coke Ovens: Pushing, Quenching and Battery Stacks
		DDDDD	Industrial, Commercial and Institutional Boilers and Process Heaters (This subpart has
X	В	DDDDD	been vacated by court action)
X	В	EEEEE	Iron and Steel Foundries
Х	В	FFFFF	Integrated Iron and Steel Manufacturing Facilities
Х	В	GGGGG	Site Remediation
Х	В	HHHHH	Miscellaneous Coating Manufacturing (MON)
Х	В	11111	Mercury Emissions from Mercury Cell Chlor-Alkali Plants
х	В	JJJJJ	Brick and Structural Clay Products Manufacturing (This subpart has been vacated by
^_	D		court action)
Х	В	KKKKK	Clay Ceramics Manufacturing (This subpart has been vacated by court action)
Х	В	LLLLL	Asphalt Processing and Asphalt Roofing Manufacture
Х	В	MMMMM	Flexible Polyurethane Foam Fabrication Operations
Х	В	NNNNN	Hydrochloric Acid Production
		00000	[Reserved]
Х	В	PPPPP	Engine Test Cells/Stands
Х	В	QQQQQ	Friction Materials Manufacturing
Х	В	RRRRR	Taconite Iron Ore Processing
Х	В	SSSSS	Refractory Products Manufacturing
Х	В	TTTTT	Primary Magnesium Refining
		UUUUU	[Reserved]
		VVVV	[Reserved]
Х	В	wwww	Hospital Ethylene Oxide Sterilizers
		XXXXX	[Reserved]
X	В	YYYYY	Area Sources: Electric Arc Furnace Steelmaking Facilities
$\frac{\lambda}{X}$	<u>B</u>	ZZZZZ	Iron and Steel Foundries Area Sources
		AAAAA	[Reserved]
X	В	BBBBBB	Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilitie
X	B	CCCCCC	Source Category: Gasoline Distribution Bulk Terminals, Bulk Harits, and Experime Lacinted Source Category: Gasoline Dispensing Facilities
		DDDDDD	Polyvinyl Chloride and Copolymers Production Area Sources
X	<u>B</u>		
X	<u>B</u>	EEEEEE	Primary Copper Smelting Area Sources
X	B	FFFFFF	Secondary Copper Smelting Area Sources
X	<u>B</u>	GGGGG	Primary Nonferrous Metals Area Sources—Zinc, Cadmium, and Beryllium
X	B	HHHHHH	Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources
			[Reserved]
		JJJJJJ	[Reserved]
		KKKKKK	[Reserved]
X	B	LLLLL	Acrylic and Modacrylic Fibers Production Area Sources
X	В	MMMMMM	Carbon Black Production Area Sources
X	В	NNNNN	Chemical Manufacturing Area Sources: Chromium Compounds
X	B	000000	Flexible Polyurethane Foam Production and Fabrication Area Sources
Х	В	PPPPPP	Lead Acid Battery Manufacturing Area Sources
Х	В	QQQQQQ	Wood Preserving Area Sources
X	В	RRRRRR	Clay Ceramics Manufacturing Area Sources
Х	В	SSSSS	Glass Manufacturing Area Sources
Х	В	TTTTT	Secondary Nonferrous Metals Processing Area Sources
		UUUUUU	[Reserved]
Х	В	VVVVVV	Chemical Manufacturing Area Sources
Х	В	www.ww	Area Source Standards for Plating and Polishing Operations
X	В	XXXXXX	Area Source Standards for Nine Metal Fabrication and Finishing Source Categories

	10 - AF	PLICABL	E REQUIREME	NIS CHECKLIST					
	LATION N		^	FIP	-	PLANT NUMBER	YEAR SUBMITTED		
viagni	tude /	Metals, LL		143		8000	2019		
	(NOT			VABLE CONTROL TECHN OP-B01.00 FOR 10 CSR 10-6.075.					
	(NOI			OF-BUT OU FOR 10 CSR 10-6.075, OT NEED TO BE SUBMITTED. AI					
			TITLE		C	RGANIZATION			
AP	PLICA	BILITY	SUBPART	(40 CFR PART 63 NATIONAL EMISSION STANDARDS FOR					
			SUBFART	HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES)					
	Χ	В	YYYYYY	Ferroalloys Production Fac	cilities				
	Х	В	ZZZZZZ	Aluminum, Copper, and O	ther Nonferr	ous Foundries			
	Х	В	AAAAAA	Asphalt Processing and A	sphalt Roofir	ng Manufacturing			
	Х	В	BBBBBBB	Chemical Preparations Inc	dustry				
	Х	В	cccccc	Paints and Allied Products Manufacturing					
	Х	В	DDDDDDD	Area Source Standards fo	r Prepared F	eeds Manufacturing			
	X	В	EEEEEEE	Gold Mine Ore Processing	and Produc	tion Aroa Source Cotegory			

FORM OP-B04 - APPLICABLE REQUIREMENTS CHECKLIST - SECTION B								
B04.00 – APPLICABLE REQUIREMENTS CHECKLIST								
INSTALLATION NAME	FIPS	PLANT NO.	YEAR SUBMITTED					
Magnitude 7 Metals, LLC	143	0008	2019					

EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS - 10CSR 10-6.080
(NOTE: If checked yes on Form OP-B01.00 for 10 CSR 10-6.080, please identify the specific subpart. If checked no, this form does not need to be submitted. All standards are federally enforceable.)

AP	APPLICABILITY		TITLE	ORGANIZATION
YES	NO	REASON	SUBPART	(40 CFR PART 61 NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS)
Х			Α	General Provisions
	Х	В	В	Radon Emissions from Underground Uranium Mines
	Х	В	С	Beryllium
	Х	В	D	Beryllium Rocket Motor Firing
	Х	В	E	Mercury
	Х	В	F	Vinyl Chloride
			G	[Reserved]
	Х	В	Н	Emissions of Radionuclides Other Than Radon From Department of Energy Facilities
	Х	В	l	Radionuclides Emissions from Federal Facilities Other Than Nuclear Regulatory Commission Licensees and Not Covered by Subpart H
	Χ	В	J	Equipment Leaks (Fugitive Emission Sources) of Benzene
	Х	В	K	Radionuclide Emission from Elemental Phosphorous Plants
	Х	В	L.	Benzene Emissions from Coke By-Products Recovery Plants
Χ			М	Asbestos .
	Х	В	N	Inorganic Arsenic Emissions from Glass Manufacturing Plants
	Х	В	0	Inorganic Arsenic Emissions from Primary Copper Smelters
	Х	В	P	Inorganic Arsenic Emissions from Arsenic Trioxide and Metallic Arsenic Production Facilities
	Х	В	Q	Radon Emissions from Department of Energy Facilities
	Х	В	R	Radon Emissions from Phosphogypsum
			S	[Reserved]
	Х	В	Τ	Radon Emissions from the Disposal of Uranium Mill Tailings
			U	[Reserved]
	Х	В	V	Equipment Leaks (Fugitive Emission Sources)
	Х	В	W	Radon Emissions from Operating Mill Tailings
			Х	[Reserved]
	Х	В	Y	Benzene Emissions from Benzene Storage Vessels
			Z	[Reserved]
			AA	[Reserved]
	Х	В	BB	Benzene Emissions from Benzene Transfer Operations
			CC	[Reserved]
			DD	[Reserved]
			EE	[Reserved]
	Х	В	FF	Benzene Waste Operations

Page 11 of 58

FORM OP-B05 - APPLICABLE REQUIREMENTS CHECKLIST - SECTION B B05,00 - APPLICABLE REQUIREMENTS CHECKLIST INSTALLATION NAME FIPS PLANT NUMBER YEAR SUBMITTED 8000 2019 Magnitude 7 Metals, LLC 143

KANSAS CITY METROPOLITAN AREA

(NOTE: PLEASE INCLUDE FORM OP-B05.00 IF LOCATED WITHIN THE FOLLOWING COUNTIES: BUCHANAN, CASS, CLAY, JACKSON, PLATTE AND RAY)

APPLICABILITY		BILITY	TITLE	ORGANIZATION	
YES	NO	REASON	11166	ORGANIZATION	
	Х	J	10 CSR 10-2.150	Time Schedule for Compliance ¹	
	х	J	10 CSR 10-2.390	Conformity to State or Federal Implementation Plans of Transportation Plans, Programs, and Projects Developed, Funded or Approved Under Title 23 U.S.C. or the Federal Transit Laws ¹	

ORGANIZATION

TITLE Restriction of Emission of Odors 2 10 CSR 10-2.070 Open Burning Restrictions 1 10 CSR 10-2.100

3. AP	PLICA	BLE REQUI	REMENTS					
l	APPLICABILITY		TITL		is form does not apply to Magnitude 7			
YES	NO	REASON			Metal's renewal application.			
			10 CSR 10		Metal's renewal application.	ure and Rework Facilities 1		
			10 CSR 10-	4.4 IV	Control of Emissions From Solvent wetar Cle	aning ¹		
			10 CSR 10-	2.215	Control of Emissions From Solvent Cleanup	Operations ¹		
			10 CSR 10-	2.220	Liquefied Cutback Asphalt Paving Restricted	estricted ¹		
			10 CSR 10-	2.230	Control of Emissions From Industrial Surface	Coating Operations ¹		
			10 CSR 10-	2.260	Control of Petroleum Liquid Storage, Loading	and Transfer ¹		
			10 CSR 10-2	2.290	Control of Emissions From Rotogravure and	Flexographic Printing Facilities ¹		
			10 CSR 10-	2.300	Control of Emissions From the Manufacturing Enamels and Other Allied Surface Coating Programmers			
			10 CSR 10-	2.310	Control of Emissions From the Application of	Automotive Underbody Deadeners 1		
	-		10 CSR 10-	2.320	Control of Emissions From Production of Pes	ticides and Herbicides ¹		
			10 CSR 10-	2,330	Control of Gasoline Reid Vapor Pressure 1			
ĺ			10 CSR 10-			ing Facilities ¹		
			10 CSR 10-	2.360	Control of Emissions From Bakery Ovens 1			
1 Fode	ral eta	te and local	agency enforce	ahla ra	aulation			

Federal, state and local agency enforceable regulation

State and local agency enforceable regulation Only federally enforced regulation

FORM OP-B06 – APPLICABLE REQUIREMENTS CHECKLIST – SECTION B					
B06.00 - APPLICABLE REQUIREMENTS CHECKLIST					
INSTALLATION NAME	FIPS	PLANT NUMBER	YEAR SUBMITTED		
Magnitude 7 Metals, LLC	143	0008	2019		

KANSAS CITY HEALTH DEPARTMENT, AIR QUALITY PROGRAM

KANSAS CITY LOCAL ORDINANCES
(NOTE: PLEASE INCLUDE FORM OP-B06 IF LOCATED WITHIN THE CITY LIMITS OF KANSAS CITY, MISSOURI.)

APPLICABILITY		TITLE	ORGANIZATION	
NO	REASON	SECTION		
		8-2	Definitions ³	
		8-3	Administration and Enforcement ⁴	
		8-4	Open Burning Restriction ³	
	, , , , , , , , , , , , , , , , , , , ,	8-5		
		8-6	This form does not apply to Magnitude 7	
		8-7	Metal's renewal application.	
***************************************		8-8	Metal 3 relieval application.	
		8-9	Restriction of Emission of Hazardous Air Pollutants	
		8-10	Review of New Sources and Modifications; Permit for Construction or Major Modification	
	THE STATE OF THE S	8-11	Permit to Operate; Notification and Record Keeping ⁴	
		8-12	Air Quality Control Board; Appeals and Variances 4	
		8-13	Confidentiality Information 4	
		8-14	Dilution of Emission ⁴	
		8-15	Start-up, Shutdown, and Malfunction Condition 4	
		8-16	Actionable Rights; Violations Declared Public Nuisance 4	
		8-17	Emergency Condition ⁴	
		8-18	Rules for Controlling Emissions During Periods of High Air Pollution Potential ⁴	
		8-19	Penalties ⁴	
		8-20	Fees ⁴	
		18-85	Open Burning Restrictions ⁴	
			NO REASON SECTION 8-2 8-3 8-4 8-5 8-6 8-7 8-8 8-9 8-10 8-11 8-12 8-13 8-14 8-15 8-16 8-17 8-18 8-19 8-20 8-20	

Only federally enforced regulation
 Only local agency enforced regulation

FORM OP-B07 - APPLICABLE REQUIREMENTS CHECKLIST - SECTION B					
B07.00 - APPLICABLE REQUIREMENTS CHECKLIST					
INSTALLATION NAME	FIPS	PLANT NUMBER	YEAR SUBMITTED		
Magnitude 7 Metals, LLC	143	0008	2019		

OUTSTATE MISSOURI AREA (NOTE: PLEASE INCLUDE FORM OP-B07.00 ONLY IF <u>NOT</u> LOCATED AT FOLLOWING LOCATIONS: CITY OF ST. LOUIS, JEFFERSON, FRANKLIN, ST. CHARLES, CLAY, CASS, BUCHANAN, RAY, JACKSON, PLATTE, AND GREENE COUNTIES)

1. CORE REQUIREMENTS							
TITLE	ORGANIZATION						
10 CSR 10-3.030	Open Burning Restrictions ¹						
10 CSR 10-3.090	Restrictions of Emission of Odors ²						

2. APPLICABLE REQUIREMENTS

I	APPLICABILITY		BILITY	TITLE	ORGANIZATION	
I	YES	NO	REASON	11155	OKSANZATION	
		X	E	10 CSR 10-3.010	Auto Exhaust Emission Controls ¹	
		Х	В	10 CSR 10-3.160	Restriction of Emission of Fluorides From Diammonium Phosphate Fertilizer Production ¹	

¹ Federal, state and local agency enforceable regulation ² State and local agency enforceable regulation

FORM	OP-B	08 – AP	PLICABLE REQUIREMENT	TS CHECKLIST - SECTION B			
B08.0	0 – API	PLICAB	LE REQUIREMENTS CHE	CKLIST			
INSTALL	ATION NA	ME		FIPS	PLANT NUMBER	YEAR SUBMITTED	_
Magnit	ude 7 N	/letals, L	LC	143	0008	2019	
			(NOTE: PLEASE INCL	INGFIELD - GREENE COUN UDE FORM OP-808.00 IF LOCATED			
			TRATIVE PERMIT REQUIR	EMENIS			
YES	NO	BILITY	TITLE		ORGANIZATION		
	Х	J	10 CSR 10-4.140	Time Schedule for Complian	nce		_
2. CO	RE PE	RMIT R	EQUIREMENTS				
	TITLE			ORGANIZ	ATION		
10 C	SR 10-4	4.070	Restriction of Emission of	Odors ²	1,000 A.V. = 19		
10 C	SR 10-4	4.090	Open Burning Restrictions		***************************************		
3, AP	PLICA	BLE RE	QUIREMENTS				Ī
Al YES	PPLICA NO	ABILITY REAS			ORGANIZATION		
¹ Fede	ral. sta	te and lo	ocal agency enforceable rec	iulation.			_

² State and local agency enforceable regulation.

This form does not apply to Magnitude 7 Metal's renewal application.

STALLATION NAME	REQUIREMENTS CHECK	
		FIPS PLANT NUMBER YEAR SUBMITTED
gnitude 7 Metals, LLC	A1997 A R ABBANA	143 0008 2019
	CITY OF SPRINGE	TIELD, AIR POLLUTION CONTROL AUTHORITY LOCAL ORDINANCES
(NOTE: F	PLEASE INCLUDE FORM OP-B	100AL ORDINANCES
APPLICABILITY	ARTICLE, DIVISION	ORGANIZATION
ES NO REASON	,	1
	Article I	In General ⁴
	Article II	Administration and Enforcement ⁴ Generally ⁴
	Article II, Division 1 Article II, Division 2	Approval of Planned Installations ⁴
	Article II, Division 3	Submission of Information ⁴
	Article II, Division 4	Hearings ⁴
	Article II, Division 5	Service of Orders or Notices ⁴
	Article II, Division 6	Enforcement ⁴
	Article II, Division 7	Test Methods and Tables ⁴
	Article II, Division 8	Stack Emission Test Method ⁴
	Article III	Emission Restrictions ⁴
	Article III, Division 1	Generally ⁴
	Article III, Division 2	Visible Air Contaminants from Equipment ⁴
	Article III, Division 3	Particulate Matter from Fuel Burning Equipment⁴
	Article III, Division 4	Particulate Matter From Industrial Processes ⁴
	Article IV	Open Burning ⁴
	Article \ Th	is form does not apply to Magnitude 7
	7 0 000	
	Article V	Metal's renewal application.
	Article V L	İn 1
1 1	Article IX	Breakdown of Equipment ⁴
	Artiala V	Circumvention ⁴
ADDLICADULTV	Article X	Circumvention ⁴ THE BELOW CITY OF SPRINGFIELD ORDINANCE SECTIONS
APPLICABILITY	Article X - ARTICLE, SECTION	THE BELOW CITY OF SPRINGFIELD ORDINANCE SECTIONS HAVE BEEN RESCINDED FROM THE CITY'S CODE, BUT ARE
	ARTICLE, SECTION	THE BELOW CITY OF SPRINGFIELD ORDINANCE SECTIONS HAVE BEEN RESCINDED FROM THE CITY'S CODE, BUT ARE STILL IN THE SIP AND ARE FEDERALLY ENFORCEABLE
	ARTICLE, SECTION Article I, §2A-2	THE BELOW CITY OF SPRINGFIELD ORDINANCE SECTIONS HAVE BEEN RESCINDED FROM THE CITY'S CODE, BUT ARE STILL IN THE SIP AND ARE FEDERALLY ENFORCEABLE Definitions.
	ARTICLE, SECTION Article I, §2A-2 Article VII, §2A-25	THE BELOW CITY OF SPRINGFIELD ORDINANCE SECTIONS HAVE BEEN RESCINDED FROM THE CITY'S CODE, BUT ARE STILL IN THE SIP AND ARE FEDERALLY ENFORCEABLE Definitions. Stack emission test methods in general. 3
	ARTICLE, SECTION Article I, §2A-2 Article VII, §2A-25 Article IX, §2A-34	THE BELOW CITY OF SPRINGFIELD ORDINANCE SECTIONS HAVE BEEN RESCINDED FROM THE CITY'S CODE, BUT ARE STILL IN THE SIP AND ARE FEDERALLY ENFORCEABLE Definitions. Stack emission test methods in general. 3 Prohibition of single chamber incinerators. 3
	ARTICLE, SECTION Article I, §2A-2 Article VII, §2A-25 Article IX, §2A-34 Article IX, §2A-35	THE BELOW CITY OF SPRINGFIELD ORDINANCE SECTIONS HAVE BEEN RESCINDED FROM THE CITY'S CODE, BUT ARE STILL IN THE SIP AND ARE FEDERALLY ENFORCEABLE Definitions. Stack emission test methods in general. ³ Prohibition of single chamber incinerators. ³ Maximum emission limitations from incinerators. ³
	ARTICLE, SECTION Article I, §2A-2 Article VII, §2A-25 Article IX, §2A-34 Article IX, §2A-35 Article IX, §2A-36	THE BELOW CITY OF SPRINGFIELD ORDINANCE SECTIONS HAVE BEEN RESCINDED FROM THE CITY'S CODE, BUT ARE STILL IN THE SIP AND ARE FEDERALLY ENFORCEABLE Definitions. Stack emission test methods in general. ³ Prohibition of single chamber incinerators. ³ Maximum emission limitations from incinerators. ³ Determination of burning capacity of an incinerator. ³
	ARTICLE, SECTION Article I, §2A-2 Article VII, §2A-25 Article IX, §2A-34 Article IX, §2A-35 Article IX, §2A-36 Article IX, §2A-37	THE BELOW CITY OF SPRINGFIELD ORDINANCE SECTIONS HAVE BEEN RESCINDED FROM THE CITY'S CODE, BUT ARE STILL IN THE SIP AND ARE FEDERALLY ENFORCEABLE Definitions. Stack emission test methods in general. Prohibition of single chamber incinerators. Maximum emission limitations from incinerators. Determination of burning capacity of an incinerator. Determination of particulate matter emitted from an incinerator.
	ARTICLE, SECTION Article I, §2A-2 Article VII, §2A-25 Article IX, §2A-34 Article IX, §2A-35 Article IX, §2A-36	THE BELOW CITY OF SPRINGFIELD ORDINANCE SECTIONS HAVE BEEN RESCINDED FROM THE CITY'S CODE, BUT ARE STILL IN THE SIP AND ARE FEDERALLY ENFORCEABLE Definitions. Stack emission test methods in general. Prohibition of single chamber incinerators. Maximum emission limitations from incinerators. Determination of burning capacity of an incinerator. Determination of particulate matter emitted from an incinerator. Time limit for existing incinerators to be brought into compliance. ASTM test method C-24-56, being a method of testing for "Pyrometric Cone
	ARTICLE, SECTION Article I, §2A-2 Article VII, §2A-25 Article IX, §2A-34 Article IX, §2A-35 Article IX, §2A-36 Article IX, §2A-37 Article IX, §2A-38	THE BELOW CITY OF SPRINGFIELD ORDINANCE SECTIONS HAVE BEEN RESCINDED FROM THE CITY'S CODE, BUT ARE STILL IN THE SIP AND ARE FEDERALLY ENFORCEABLE Definitions. Stack emission test methods in general. Prohibition of single chamber incinerators. Maximum emission limitations from incinerators. Determination of burning capacity of an incinerator. Determination of particulate matter emitted from an incinerator. Time limit for existing incinerators to be brought into compliance.
	ARTICLE, SECTION Article I, §2A-2 Article VII, §2A-25 Article IX, §2A-34 Article IX, §2A-35 Article IX, §2A-36 Article IX, §2A-37 Article IX, §2A-38 Article XX, §2A-51	THE BELOW CITY OF SPRINGFIELD ORDINANCE SECTIONS HAVE BEEN RESCINDED FROM THE CITY'S CODE, BUT ARE STILL IN THE SIP AND ARE FEDERALLY ENFORCEABLE Definitions. Stack emission test methods in general. Prohibition of single chamber incinerators. Maximum emission limitations from incinerators. Determination of burning capacity of an incinerator. Determination of particulate matter emitted from an incinerator. Time limit for existing incinerators to be brought into compliance. ASTM test method C-24-56, being a method of testing for "Pyrometric Cone Equivalent (PCE) of Refractory Materials."

FORM OP-B10 - APPLICABLE REQUIREMENTS CHECKLIST - SECTION B **B10.00 - APPLICABLE REQUIREMENTS CHECKLIST** PLANT NUMBER YEAR SUBMITTED Magnitude 7 Metals, LLC 0008 143 2019 ST. LOUIS METROPOLITAN AREA (NOTE: PLEASE INCLUDE FORM OP-B10.00 IF LOCATED WITHIN: CITY OF ST. LOUIS AREA; AND COUNTIES: ST. CHARLES, JEFFERSON, ST. LOUIS AND FRANKLIN) 1. STATE ADMINISTRATIVE PERMIT REQUIREMENTS APPLICABILITY TITLE ORGANIZATION YES NO REASON Х 10 CSR 10-5.130 Certain Coals to be washed 1 Х Time Schedule for Compliance J 10 CSR 10-5,250 Χ 10 CSR 10-5.375 Motor Vehicle Emission Inspection Waiver J Motor Vehicle Emissions Inspection 1 Х 10 CSR 10-5,380 J Conformity to State or Federal Implementation Plans of Transportation Plans, Χ 10 CSR 10-5,480 Programs, and Projects Developed, Funded, or Approved Under Title 23 U.S.C. or the J Federal Transit Laws 1 2. CORE PERMIT REQUIREMENTS ORGANIZATION TITLE 10 CSR 10-5.070 Open Burning Restrictions 10 CSR 10-5,160 Control of Odors in the Ambient Air 3. APPLICABLE REQUIREMENTS APPLICABILITY TITLE ORGANIZATION REASON YES NO 10 CSR 10-5. This form does not apply to Magnitude 7 10 CSR 10-5. Metal's renewal application. uel Oil) to be Provided and 10 CSR 10-5. 10 CSR 10-5.170 Control of Odors From Processing of Animal Matter 2 10 CSR 10-5,220 Control of Petroleum Liquid Storage, Loading and Transfer Additional Air Quality Control Measures May be Required When Sources Are 10 CSR 10-5.240 Clustered in a Small Land Area 1 More Restrictive Emission Limitations for Particulate Matter in the South St. Louis 10 CSR 10-5.290 Area Control of Emissions From Aerospace Manufacture and Rework Facilities¹ 10 CSR 10-5,295 10 CSR 10-5,300 Control of Emissions From Solvent Metal Cleaning 1 Liquefied Cutback Asphalt Paving Restricted 1 10 CSR 10-5.310 Control of Emissions From Industrial Surface Coating Operations 10 CSR 10-5,330 Control of Emissions From Rotogravure and Flexographic Printing Facilities 10 CSR 10-5.340 Control of Emissions From Manufacture of Synthesized Pharmaceutical Products¹ 10 CSR 10-5.350 10 CSR 10-5.360 Control of Emissions From Polyethylene Bag Sealing Operations 1 10 CSR 10-5,370 Control of Emissions From the Application of Deadeners and Adhesives 10 CSR 10-5.375 Motor Vehicle Emission Inspection Waiver 10 CSR 10-5,380 Motor Vehicle Emissions Inspection Control of Emissions From Manufacture of Paints, Varnishes, Lacquers, Enamels and 10 CSR 10-5,390 Other Allied Surface Coating Products 1 Control of Emissions From Manufacture of Polystyrene Resin 10 CSR 10-5.410 Control of Equipment Leaks From Synthetic Organic Chemical and Polymer Manufacturing Plants ¹ 10 CSR 10-5,420 Control of Emissions From the Surface Coating of Chrome-Plated and Resist Plastic 10 CSR 10-5,430 Parts 2 Control of Emissions From Bakery Ovens 1 10 CSR 10-5.440 10 CSR 10-5.442 Control of Emissions From Lithographic Printing Operations 1 Control of VOC Emissions From Traffic Coatings 10 CSR 10-5.450 Control of Emissions From Aluminum Foil Rolling 10 CSR 10-5.451 Control of Emissions From Solvent Cleanup Operations 1 10 CSR 10-5.455 Municipal Solid Waste Landfills 1 10 CSR 10-5.490 Federal, state and local agency enforceable regulation ² State and local agency enforceable regulation ³ Only federally enforced regulation

FORM OP-B10 - APPLICABLE REQUIREMENTS CHECKLIST - SECTION B					
B10:00 – Applicable Requirements Checklist					
INSTALLATION NAME	FIPS	PLANT NUMBER	YEAR SUBMITTED		
Magnitude 7 Metals, LLC	143	0008	2019		

ST. LOUIS METROPOLITAN AREA (CONTINUED)
(NOTE: PLEASE INCLUDE FORM OP-B10.00 IF LOCATED WITHIN: CITY OF ST. LOUIS AREA, AND COUNTIES:
ST. CHARLES, JEFFERSON, ST. LOUIS, AND FRANKLIN)

3. APPLICABLE REQUIREMENTS

APPLICABILITY		BILITY	TITLE	ORGANIZATION	
YEŞ	NO	REASON	TITLE	ORGANIZATION	
		- Landau - Carlos - C	10 CSR 10-5.500	Control of Emissions From Volatile Organic Liquid Storage ¹	
			10 CSR 10-5,510	Control of Emissions of Nitrogen Oxides ¹	
			10 CSR 10-5.520	Control of Volatile Organic Compound Emissions From Existing Major Sources 1	
			10 CSR 10-5.530	Control of Volatile Organic Compound Emissions From Wood Furniture Manufacturing Operations ¹	
			10 CSR 10-5.540	Control of Emissions From Batch Process Operations 1	
			10 CSR 10-5.550	Control of Volatile Organic Compound Emissions From React or Processes and Distillation Operations Processes in the Synthetic Organic Chemical Manufacturing Process 1	

¹ Federal, state and local agency enforceable regulation ² State and local agency enforceable regulation

This form does not apply to Magnitude 7 Metal's renewal application.

FORM OP-B11 - APPLICABLE REQUIREMENTS CHECKLIST - SECTION B									
B11:00 – APPLICABLE REQUIREMENTS CHECKLIST									
INSTALLATION NAME	FIPS	PLANT NO.	YEAR SUBMITTED						
Magnitude 7 Metals, LLC	143	8000	2019						

ST. LOUIS COUNTY DEPARTMENT OF HEALTH, AIR, LAND, & WATER BRANCH AIR POLLUTION CONTROL SECTION CHAPTER 612 – AIR POLLUTION CONTROL CODE ST. LOUIS COUNTY LOCAL ORDINANCES

APPLICABILITY YES NO REASON TITLE			TITLE	ORGANIZATION							
******			612.010	Short Title ⁴							
			612.020	Scope ⁴							
			612,030	Definitions ⁴							
			612.040	Air Quality Standards and Air Pollution Control Regu	ulations ⁴						
			612.050	Enforcement, By Whom 4							
			612.060	Director of Air Pollution – Duties 4							
			612.070	Appeal Board Establishment 4							
			612.080	Duties of Appeal Board 4							
			612.090	Board of Consider Appeal 4							
			612.100	Emergency Abatement of Violation-Procedure 4							
			612.110	Permits Required 4							
			612.120	Permits to be Visibly Affixed or Placed 4							
			612.130	Permit to sell or rent 4							
			612.140	Transfer ⁴							
		· · · · · · · · · · · · · · · · · · ·	612,150								
			612.160	This form does not apply to Magnitude 7	o Construct and Operating Permits						
			612.170		S CONTRACT GIVE OPERATING						
			612.180	Metal's renewal application.							
			612.190	Cancellation of Authority to Construct							
	***************************************		612.200	Testing Prior to granting of Operating Permits ⁴							
			612.210	Action on Application for Permits ⁴							
			612.220	Suspension or Revocation of Permits 4							
			012,220		Authority to Construct Board Hearin						
			612.230	Suspension or Revocation of Operating Permits or Authority to Construct, Board Hea							
			612.240	Surrender of Permits ⁴							
		-	612.250	Fees, When Payable, Exceptions 4							
			612,260	Permit Fees; Schedules ⁴							
			612.270	Permit Fees; Refund ⁴							
			612.280	Testing by order of the Board ⁴							
			612,290	Right of Entry; Inspections; Samples 4							
			612.300	Variances 4							
			612.305	Variances Variances Granted by Director 4							
			612,310	Upset Conditions, Breakdown, or Scheduled Mainte	nance 4						
			612.320	Service of Notice 4	mance						
			612,330	Reports of Division Technical Experts; Presumptive	Evidence of Easts 4						
			612,335	Permitted Hours of Incinerator Operation ⁴	Evidence of Facts						
				Air Pollution Nuisances Prohibited 4							
			612.340	Disclosure of Secret Processes Prohibited 4							
			612.350		for 4						
			612,360	Disclosure of Secret Processes Prohibited, Penalty							
			612.370	False or Misleading Oral Statements; Unlawful Rep	roduction or Alteration of Document						
			612,380								
			612,390 Penalties for Violation ⁴								
			612.400								
			612,410 Incinerators ⁴								
			612,420 Incinerator Stack; Emergency Vent Stack Use 4								
			612.430	Recycling Requirements for Incineration of Waste 4	NOTE TO A STATE OF THE STATE OF						
			612,440	Preparation and Submission of Plan for Recycling 4							
	l		612.450	Use of Recycled Goods in Lieu of Recycling 4							

FORM OP-B11 - APPLICABLE REQUIREMENTS CHECKLIST - SECTION B									
B11.00 – APPLICABLE REQUIREMENTS CHECKLIST									
INSTALLATION NAME	FIPS	PLANT NO.	YEAR SUBMITTED						
Magnitude 7 Metals, LLC	143	0008	2019						

ST. LOUIS COUNTY DEPARTMENT OF HEALTH, AIR, LAND, & WATER BRANCH AIR POLLUTION CONTROL SECTION CHAPTER 612 – AIR POLLUTION CONTROL CODE ST. LOUIS COUNTY LOCAL ORDINANCES (CONTINUED)

(NOTE: PLEASE INCLUDE FORM OP-B11.90 IF LOCATED WITHIN ST. LOUIS COUNTY.)

APPLICABILITY TITLE		TITLE	ORGANIZATION						
YES	NO	REASON	11166	ONGARIZATION					
			612.460	Use of Reusable Materials in Lieu of Recycling ⁴					
	612.470		612.470	Approval of Plan for Recycling ⁴					
	612.480		612.480	Modification of Existing Plan ⁴					
			612.490	Appeal from Decision of Director Disapproving Plan 4					
			612.500	Compliance with Plan ⁴					
			612.510	"Recyclable" Defined 4					
			612.520	Reduction in Quantity of Waste Prior to Incineration ⁴					
	612.530		612.530	Saint Louis County Department of Health Asbestos Abatement Rules and Regulations – Registration, Notification, and Performance Requirements ⁴					

⁴ Only Local Agency Enforced Regulation

This form does not apply to Magnitude 7 Metal's renewal application.

FORM OP-B12 - APPLICABLE REQUIREMENTS CHECKLIST - SECTION B										
B12.00 – Applicable Requirements Checklist										
INSTALLATION NAME	FIPS	PLANT NO.	YEAR SUBMITTED							
Magnitude 7 Metals, LLC	143	0008	2019							

CITY OF ST. LOUIS, DIVISION OF AIR POLLUTION CONTROL ST. LOUIS CITY ORDINANCES (NOTE: PLEASE INCLUDE FORM OP-B12.00 IF LOCATED WITHIN ST. LOUIS CITY.)

APPLICABILITY TITLE ORDINANCE 94749 SECTION				ORGANIZAT (INCLUDES ORDINANCE 65108: AME AND ORDINANCE 65488: AM	ENDED SECTIONS 16 AND 24					
			1	Adoption ⁴						
			2	Name ⁴ Policy Statement ⁴						
*************			3							
			4	Statement of Delegated Authority 4						
			5	Division Re-established 4						
			6	Continuation of Existing Actions ⁴						
			7	Definitions ³						
			8	Commissioner Qualifications 4						
			9	Commissioner Powers and Duties 4						
			<u>1</u> c	Doard of Annoala and Variance Dovinus 4	2					
			1 Th	is form does not apply to Magnitude 7						
			1:	Metal's renewal application.						
			1;	Metal 5 leftewar applications						
			14	Source-Specific Entergency Procedures						
			15	Air Pollution Nuisance Prohibited ⁴						
			16	Restrictions of Emission of Visible Air Conf	taminants ⁴					
			17	Open Burning Restrictions ³						
			18	Incinerators 4						
			19	Prevention of Airborne Particulate Matter 4						
			20	Abrasive Blasting ⁴						
			21	Source Registration Permits Required ⁴						
			22	Inspection, Disclosure, and Submittal of Re						
			23	Cooperation of Local Government Agencie	es Required *					
			24	Enforcement ⁴						
			25	Upset Conditions, Breakdowns, or Schedu	led Maintenance [≁]					
		***	26	Performance Based Fee Schedule 4						
			27	Severability 4						
			28	Penalty Clause 4						
			29	Section Sixteen, C. Effective Date 4						
		elly Enforced	30	Emergency Clause ⁴						

Only Federally Enforced Regulation
 Only Local Agency Enforced Regulation

NOTE: For Part 70 applications only. INSTALLATION NAME	т	FIPS		PLANT NUMB	FR	YEAR SUBM	ITTED
Vagnitude 7 Metals, LLC				0008	had V	2019	
INSIGNIFICANT ACTIVITY			TIAL COT	MATED EM	iccionic /	<u> </u>	
EMISSION UNIT ID		FOILIN	I IAL EUT	INAI LU LIN	ISSICIUS (IONO/IN	1
Heaters	PM ₁₀	SOx	NOx	Voc	co	LEAD	HAPS
DESCRIPTION							
Multiple Space Heaters, natural gas fired, less than 10 MMBtu/hour each	<1 each	<1 each	<5 each	<1 each	<5 each	0	<1 each
EMISSION UNIT ID	PM ₁₀	SO _X	NOx	Voc	co	LEAD	HAPS
DESCRIPTION							
Paved Haul Roads	<15						
EMISSION UNIT ID	PM ₁₀	SOx	NO _X	Voc	CO	LEAD	HAPS
Engines DESCRIPTION							
Non-stationary, temporary diesel-powered engines	<15	<40	<40	<40	<100	<0.6	
EMISSION UNIT ID							
ENISSION UNITED	PM ₁₀	SO _X	NOx	Voc	co	LEAD	HAPS
DESCRIPTION							
Insignificant Activ	'ities cal	culations a	re includ	ed as Attac	hment 2.	1	
EMISSION UNIT ID	PM ₁₀	SO _X	NO _x	Voc	CO	LEAD	HAPS
DESCRIPTION	\$200,000,000.000000000000000000000000000						11 220 220 220 220
EMISSION UNIT ID							
	PM ₁₀	SOx	NOx	Voc	co	LEAD	HAPS
DESCRIPTION							
	ATE TH	S FORM AS	NEEDED	T. (1)		and surfaces described to the surfaces of the	

	- EXISTING PLANT-WIDE CONDITIONS	UNS - SECTION D						
NOTE: Include a	blank form when no existing plant-wi							
INSTALLATION NAM	_	FIPS	PLANT NUMBER	YEAR SUBMITTED				
Magnitude 7 Meta		143	0008	2019				
	space provided below any permit cor 00 units per 12 month rolling average			e basis: (e.g., Production				
PERMIT NO.		APPLICABLE PER	MIT CONDITION					
OP2001032								
OP2001033								
OP2001062	All current Part 70 permit conditions are	incorporated by reference,	except as noted on form OP-F01.					
OP2001066								
	The following construction permits are in							
0298-001	 0298-001: Replacement of existing batch press anode mold with a turntable vibrate 		h continuous mixer and the replac	cement of the existing hydraulic				
102004-001	102004-001A: Increase in aluminum pro	duction at an existing prim	arv aluminum nlant. Original nern	nit was revised to change SOx				
122007-005	and CO emission limits.	audition at an embang prim	ary anaminam promo original port	ne was revised to shange son				
032008-009	122007-005: "Rod Mill #2"; Installation o	of two (2) 80,000 pound ho	ding furnaces with a maximum he	eat input of 20 million BTU per				
042013-011	hour each.							
	032008-009; Installation of new 125 ton	alumina storage bin {EP-11	5) and activation of shut down eq	uipment (EP-51, 52, 53, and				
	54).							
	- 042013-011 : Construction of two (2) 220 cast rod mill.	0,000 pound rectangular til	ring furnaces to supply molten alu	minum for a new continuous				
	_							
The state of the s	See Form OP-F01 General Comments fo	or noted exceptions to inc	orporation by reference for con	struction permits.				
PERMIT NO.	COMPLIANCE DEMONSTRATION METHOD	DESCR	IBE METHOD AND GIVE R	EFERENCE				
OP2001032	Incorporated by Reference			****				
OP2001033	Incorporated by Reference		-					
OP2001062	Incorporated by Reference							
OP2001066	Incorporated by Reference							
0298-001	Incorporated by Reference							
102204-001	Incorporated by Reference							
122007-005	Incorporated by Reference							
032008-009	Incorporated by Reference							
042013-011	12013-011 Incorporated by Reference							

DUPLICATE THIS FORM AS NEEDED

FORM OP-D02 - PROPO D02:00 - PROPOSED PL	SED PLANT-WIDE CONDITIONS - ANT-WIDE CONDITIONS	SECTION D		
NOTE: Include a blank for	m when no existing plant-wide condit	ions are applicable.		, , , , , , , , , , , , , , , , , , ,
INSTALLATION NAME	× 1	FIPS	PLANT NO.	YEAR SUBMITTED
Magnitude 7 Metals, LLC		143	0008	2019
Please list in the space propermit.	ovided below any proposed permit co	nditions that the install	lation intends to es	tablish in this operating
	PROPOS	ED CONDITION		
		N/A		·
	A A A A A A A A A A A A A A A A A A A		.,	
			······································	

,				
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

that are being established	thodologies you intend to use to demo l above: (e.g., testing, monitoring and	onstrate compliance w record keeping)	ith each of the prop	posed plant-wide condition(s)
PROPOSED CONDITION NO.	COMPLIANCE DEMONSTRATION METHOD	DESC	RIBE METHOD AI	ND GIVE REFERENCE
			<u></u>	
		É		
	DUDI ICATE TE	IIS FORM AS NEEDE	n	

FORM OP-D03 - EMISSI		TION - SEC	TION D							
D03.00 - GENERAL EMIS	SSION UNITS									
installation name Magnitude 7 Metals, LL	С		FiPS 143		PLANT NO. 0008	YEAR SUBMITTED 2019				
EMISSION UNIT ID EU-5000 permit required per MDNR 3/		EIQ REFERE	NCE NUMBER (ID)		SOURCE CLASSIFICA 3-03-003-10	TION CODE (SCC)				
1. EMISSION UNIT DESCRIPTION										
INSTALLATION'S NAME FOR TH	HS EMISSION Potline Cru	isher		eccasion meriode e de plife de en de en de la fille						
DESCRIPTION OF EMISSION S	hredder and associated co	inveyors for the	sizing of spent carbon potli	iner as rec	uired by disposal facility.					
MANUFACTURER American Pulverizer					MODEL NO./SERIAL SH-1 (1-2 RPM)	NO.				
CONSTRUCTION DATE	pprox 3 / 15 /	99	MAXIMUM HOURLY DE 5 tons coal /hour	SIGN RAT	E					
STACK NO. S-DW	TEMPERATURE		77 °F	FLOW	RATE	^{43,800} ft ³ /m	in			
2. ASSOCIATED AIR PC	LLUTION CONTRO					CAPTIDE CENTRAL				
CONTROL DEVICE TYPE Baghouse (018)		POLLU	TANT(S) CONTROLLED		OL EFFICIENCY sant grain loading	CAPTURE EFFICIENCY 100	%			
ADDITIONAL CONTROL DEVICE	E TYPE	POLLU	TANT(S) CONTROLLED	CONTRO	DL EFFICIENCY	CAPTURE EFFICIENCY				
N/A					%		%			
3. APPLICABLE REQUI	REMENTS									
POLLUTANT		E REQUIREME CFR#, PERMIT	ENT AUTHORITY FNO., ETC.)		EMISSION LIMIT OR STANDARD (INCLUDING UNITS)					
PM	10-6.400 Proces	ss Weight F	Rule	12.05 lb/hr						
Opacity	10-6.220 Opacit	y Requiren	nents	20%	20%					
PM ₁₀	PSD Permit 102	004-001A	-001A 3.75		3.75 lb/hr					
			·							
			vided for emission this title V renewa							
Weight Rule an existing PM ₁₀ li	d Opacity Require mits from permit 1	ments for r 02004-001	new sources. Those , subject to existing	noted Polycy	are also either su /clic Organic Matt	bject to er				
	er 40 CFR Part 63 P-75 applied to the		, or have condition	s speci	ried in Operating	Permit				
PM emission calculations are included in Appendix 4. These calculations use updated MHDR.										

		DUPLICAT	E THIS FORM AS N	EEDED						

FORM OP-D03 - EMISSIC		TION - SEC	OIT	N D				
D03.00 - GENERAL EMIS	SION UNITS							
INSTALLATION NAME Magnitude 7 Metals, LLC				FIPS 143		PLANT NO. 0008		YEAR SUBMITTED 2019
EMISSION UNIT ID EIQ REFERENCE NUMBER (ID) EU5010, 5020, and 5030 (0298-001) EP-71						SOURCE CLASSIFIC 3-03-003-12	CATIO	N CODE (SCC)
1. EMISSION UNIT DESC	RIPTION							
INSTALLATION'S NAME FOR TH	IS EMISSION Screw Cor	nveyors						
DESCRIPTION OF EMISSION Son	ew conveyors for Anode	Paste Productio	n.					
MANUFACTURER Conveyor & Drive Equipment Co.						MODEL NO./SERIA N/A	L NO.	,
CONSTRUCTION DATE Me	arch 2000			XIMUM HOURLY DE ons/hour	SIGN RA	TE		
STACK NO. S-71	TEMPERATURE		<u> </u>	⁷⁷ °F	FLOW	/ RATE		¹⁵⁰⁰ ft ³ /min
2. ASSOCIATED AIR POI	LLUTION CONTRO	L EQUIPMI	ENT					
CONTROL DEVICE TYPE				S) CONTROLLED	CONTR	ROL EFFICIENCY		APTURE EFFICIENCY
Baghouse (018) ADDITIONAL CONTROL DEVICE	TVPF	PM	TANT/	S) CONTROLLED		stant grain loading		100 % APTURE EFFICIENCY
) 1 I las	1 OLLO	116417	o) columbility	001111	%		%
N/A			Sepale weeks				******	
3. APPLICABLE REQUIR	EMENIS							
POLLUTANT		E REQUIREME CFR#, PERMIT						OR STANDARD S UNITS)
PM	10-6.400 Proces	ss Weight F	Rule		42.53 lb/hr			
Opacity	10-6.220 Opacit	y Requiren	nents	3	20%			
PM ₁₀	PSD Permit 102	004-001A			0.1	3 lb/hr		
				·			***************************************	

		DUPLICAT	E TH	IIS FORM AS NI	EEDEC)		

	FORM OP-D03 - EMISSION UNIT INFORMATION - SECTION D										
	D03.00 – GENERAL EMIS		FIPS			YEAR SUBMITTED					
	Magnitude 7 Metals, LL0		143	8000		2019					
	EMISSION UNIT ID EU5040 and 5050 (029	EIQ REFERE EP-71	NCE NUMBER (ID)	3-03-00	CLASSIFICA)3-12	ATION CODE (SCC)					
	1. EMISSION UNIT DESCRIPTION										
	INSTALLATION'S NAME FOR TH	IIS EMISSION Vibratory I	Feeders								
-	DESCRIPTION OF EMISSION VIII	oratory feeders for Anode	Paste Production	on.							
	MANUFACTURER Morgensen				MODEL I Model E-	NO./SERIAL 0548	NO.				
	CONSTRUCTION DATE	arch 2000		MAXIMUM HOURLY DE 40 tons/hour	SIGN RATE						
	STACK NO. TEMPERATURE S-71			⁷⁷ °F	FLOW RATE		¹⁵⁰⁰ ft ³ /min				
ţ	2. ASSOCIATED AIR PO	LLUTION CONTRO	DL EQUIPMI	ENT							
	CONTROL DEVICE TYPE Baghouse (018)		POLLU	TANT(S) CONTROLLED	CONTROL EFFICIE Constant grain los	0/2	CAPTURE EFFICIENCY 100 %				
	ADDITIONAL CONTROL DEVICE		TANT(S) CONTROLLED	CONTROL EFFICIE	NCY	CAPTURE EFFICIENCY					
	N/A					%	%				
	3. APPLICABLE REQUIR	REMENTS									
	POLLUTANT APPLICABLE REQUIRES (CSR#, CFR#, PER)			ENT AUTHORITY FNO., ETC.)	EN		AIT OR STANDARD DING UNITS)				
	PM	10-6.400 Proce	ss Weight F	Rule 42.53 lb/hr							
	Opacity	10-6.220 Opaci	ty Requiren	nents	20%						
	PM ₁₀	PSD Permit 102	2004-001A		0.13 lb/hr						
						Ardyn yn yr yr iddidd d ddirenno					
			DUPLICAT	E THIS FORM AS N	EEDED						

FORM OP-D03 - EMISSIO		TION – SEC	TION	D	.,,.,,.		***************************************	
D03.00 – GENERAL EMIS	SION UNITS			rine		DI ANT NO	VEAU OUR	MITTED
INSTALLATION NAME Magnitude 7 Metals, LLC	>			FIPS 143		PLANT NO. 0008	2019	MIII 1FD
EMISSION UNIT ID EU5060 (0298-001)		EIQ REFEREI EP-71	NCE NU	JMBER (ID)		SOURCE CLASSIFIC 3-03-003-12	ATION CODE (SCO	C)
1. EMISSION UNIT DESC								
INSTALLATION'S NAME FOR THI		Separator						
DESCRIPTION OF EMISSION Ma	gnetic separator for Anod	de Paste Produc	ction.					
MANUFACTURER Eriez						MODEL NO./SERIAL Permanent magnetic		15'x42"
CONSTRUCTION DATE Ma	arch 2000			MUM HOURLY DE: ns/hour	SIGN RAT	E		
STACK NO.	TEMPERATURE				FLOW	RATE		
S-71				⁷⁷ °F		Tanangas, pagarananan mara	15	⁵⁰⁰ ft ³ /min
2. ASSOCIATED AIR POIL CONTROL DEVICE TYPE	LLUTION CONTRO) CONTROLLED	CONTRO	OL EFFICIENCY	CAPTURE EFFI	CIENCY
Baghouse (018)		PM	, 😅	,		ant grain loading	1	100 %
ADDITIONAL CONTROL DEVICE	TYPE		TANT(S) CONTROLLED		DL EFFICIENCY	CAPTURE EFFI	CIENCY
N/A				,		%	,	%
3. APPLICABLE REQUIR	EMENTS	<u> </u>						
POLLUTANT	APPLICABL	E REQUIREME CFR#, PERMI					MIT OR STANDARI DING UNITS)	D
PM	10-6.400 Proces				42.53 lb/hr			
FIVI								1
Opacity	10-6.220 Opacit	y Requiren	nents		20%			
PM ₁₀	PSD Permit 102	004-001A			0.13	l lb/hr		
		active extention from the expression of Ambrical And Ambridge						

		DUPLICAT	E THI	S FORM AS N	EEDED			

FORM OP-D03 - EMISSIO		TION - SEC	TION D					
D03.00 - GENERAL EMIS	SION UNITS						/ (m V in Cit line and and	
Magnitude 7 Metals, LLC	;		143			PLANT NO. 0008	YEAR SUBMITTED 2019	
EMISSION UNIT ID EU5070 (0298-001)		EIQ REFEREN	NCE NUMBER	(ID)	SOURCE CLASSIFICATION CODE (SCC) 3-03-003-12			
1. EMISSION UNIT DESC	RIPTION							
INSTALLATION'S NAME FOR THI		Separator						
DESCRIPTION OF EMISSION Iron	separator for Anode Pas	ste Production.						
MANUFACTURER					and the second s	MODEL NO./SERIA	L NO.	
Tramp						TGH-2		
CONSTRUCTION DATE Ma	rch 2000		MAXIMUM H 40 tons/hour	OURLY DE	SIGN RAT	Έ		
STACK NO. S-72	TEMPERATURE		<u> </u>	⁷⁷ ∘F	FLOW	RATE	⁴⁰⁰⁰ ft ³ /min	
2. ASSOCIATED AIR POL	LUTION CONTRO	L EQUIPME	TM					
CONTROL DEVICE TYPE		POLLUT	ANT(S) CONT	ROLLED		DL EFFICIENCY tant grain loading	CAPTURE EFFICIENCY 100 %	
Baghouse (018) ADDITIONAL CONTROL DEVICE	TYPE	1	TANT(S) CONT	ROLLED		OL EFFICIENCY	CAPTURE EFFICIENCY	
N/A						%	%	
3. APPLICABLE REQUIR	EMENTS			J.				
POLLUTANT		E REQUIREME CFR#, PERMIT		ſΥ			MIT OR STANDARD DING UNITS)	
PM	10-6.400 Proces	s Weight F	Rule		42.53 lb/hr			
Opacity	10-6.220 Opacit	y Requirem	nents		20%	, o		
PM ₁₀	PSD Permit 102	004-001A			0.34	1 lb/hr		

		DUPLICAT	E THIS FO	RM AS N	EEDED			

FORM OP-D03 - EMISSIO		TION - SEC	TION D					
D03.00 - GENERAL EMIS	SION UNITS		EUDO		T SUANITANO	NEAD CHRISTIAN		
INSTALLATION NAME Magnitude 7 Metals, LLC	•		FIPS 143		PLANT NO. 0008	YEAR SUBMITTED 2019		
EMISSION UNIT ID EU5100 (0298-001)		EIQ REFEREI EP-100	NCE NUMBER (ID)		SOURCE CLASSIFICATION CODE (SCC) 3-03-003-12			
1. EMISSION UNIT DESC								
INSTALLATION'S NAME FOR TH	IS EMISSION Rotary Lob	e Blower						
DESCRIPTION OF EMISSION BIO	wer for Anode Paste Pro	cess						
MANUFACTURER Roots					MODEL NO./SERIAL Q-153	NO.		
CONSTRUCTION DATE Ma	arch 2000		MAXIMUM HOURLY DE 40 tons/hour	SIGN RA	TE			
STAGK NO. S-100	TEMPERATURE		77 °F	FLOW	/ RATE	^{12,000} ft ³ /min		
2. ASSOCIATED AIR POI	LUTION CONTRO		ENT FANT(S) CONTROLLED	CONTR	ROL EFFICIENCY	CAPTURE EFFICIENCY		
Coke Dry Scrubber (071)		PM, VO	c		stant grain loading %	100 %		
ADDITIONAL CONTROL DEVICE	TYPE	POLLUT	FANT(S) CONTROLLED	CONTR	ROLEFFICIENCY %	CAPTURE EFFICIENCY %		
3. APPLICABLE REQUIR	EMENTS							
3. AFFLICABLE REGUIR								
POLLUTANT		E REQUIREME CFR#, PERMIT	NT AUTHORITY FNO., ETC.)			MIT OR STANDARD DING UNITS)		
PM	10-6.400 Proces	ss Weight F	Rule	42.	53 lb/hr			
Opacity	10-6.220 Opacit	y Requirem	nents	209	%			

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		DUPLICAT	E THIS FORM AS N	EEDEC)			

FORM OP-D03 - EMISSIC		TION - SECTION	ON D				
D03.00 - GENERAL EMIS							
INSTALLATION NAME Magnitude 7 Metals, LLC			FIPS 143		PLANT NO. 0008	YEAR SUBMITTED 2019	
EU5110 (0298-001)		EIQ REFERENCE EP-100	E NUMBER (ID)		SOURCE CLASSIFICATION CODE (SCC) 3-03-003-12		
1. EMISSION UNIT DESC	RIPTION						
INSTALLATION'S NAME FOR TH	IS EMISSION Air Veyor			water programme and the second			
DESCRIPTION OF EMISSION AIR	Veyor for Anode Paste F	rocess					
MANUFACTURER N/A					MODEL NO./SERIAL Model C, Type 17	- NO.	
CONSTRUCTION DATE	arch 2000		IAXIMUM HOURLY DE 0 tons/hour	SIGN RAT	E		
1410							
STACK NO. S-100	TEMPERATURE		⁷⁷ ∘F	FLOW	RATE	^{12,000} ft ³ /min	
2. ASSOCIATED AIR PO	LLUTION CONTRO	L EQUIPMEN	Т				
CONTROL DEVICE TYPE		POLLUTAN	IT(S) CONTROLLED	CONTRO	OL EFFICIENCY	CAPTURE EFFICIENCY	
Coke Dry Scrubber (071)		PM, VOC		Const	tant grain loading %	100 %	
ADDITIONAL CONTROL DEVICE	TYPE	POLLUTAN	IT(S) CONTROLLED	CONTRO	OL EFFICIENCY	CAPTURE EFFICIENCY	
N/A					%	%	
3. APPLICABLE REQUIR	IEMENTS					****	
POLLUTANT		E REQUIREMENT CFR#, PERMIT NO				MIT OR STANDARD DING UNITS)	
PM	10-6.400 Proces	ss Weight Rul	е	42.5	3 lb/hr		
Opacity	10-6.220 Opacit	v Requiremen	nts	20%	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

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FORM OP-D03 - EMISSIO		TION - SEC	TION D	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC			
D03.00 - GENERAL EMIS	SION UNITS		LEIDO		DI ANE NO	VEAD OUR CERES	
INSTALLATION NAME Magnitude 7 Metals, LLC			FIPS 143		PLANT NO. 0008	YEAR SUBMITTED 2019	
EMISSION UNIT ID EU5120 (0298-001)		EP-100	NCE NUMBER (ID)	SOURCE CLASSIFICATION CODE (SCC) 3-03-003-12			
1. EMISSION UNIT DESC							
INSTALLATION'S NAME FOR TH		vibrating compa	ctor				
DESCRIPTION OF EMISSION Co.	mpactor for Anode Paste	Process	v444				
MANUFACTURER					MODEL NO./SERIAI	_ NO.	
KHD					N/A		
CONSTRUCTION DATE			MAXIMUM HOURLY DE	SIGN RA	TE .		
Ma	rch 2000		40 tons/hour				
STACK NO.	TEMPERATURE			FLOW	RATE	40.000 - 2 -	
S-100			⁷⁷ °F			^{12,000} ft ³ /min	
2. ASSOCIATED AIR POI	LLUTION CONTRO						
CONTROL DEVICE TYPE			TANT(S) CONTROLLED		OLEFFICIENCY %	CAPTURE EFFICIENCY 100 %	
Coke Dry Scrubber (071)		PM, VO			tant grain loading		
ADDITIONAL CONTROL DEVICE	TYPE -	POLLU	TANT(S) CONTROLLED	CONTR	OL EFFICIENCY %	CAPTURE EFFICIENCY %	
N/A					70		
3. APPLICABLE REQUIR	EMENTS						
POLLUTANT		E REQUIREME GFR#, PERMI	ENT AUTHORITY I NO., ETC.)			MIT OR STANDARD DING UNITS)	
PM	10-6.400 Proces	ss Weight F	Rule	42.5	53 lb/hr		
Opacity	10-6.220 Opacit	y Requiren	nents	20%			
POM	40 CFR Part 63	, Subpart L	L	Route emissions through a dry coke			
				scru	ubber; monitor co	ke and air flows.	
NOTE: The applicable re	equirements from	40 CFR Pa	art 63, Subpart LL f	rom Ef	2-75 in Operating	Permit 2001062 have	
been applied to this emi-	ssion unit. See F	orm F01.00) for explanation				
			A. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.				
						t	
			-qayye ayan bega gadahiy kiniy Abbilan KABala A Milki NA Abbil A Adilla Asa WABARA WARA A Milki Asa WABARA WARA WARA A Milki Asa WABARA WARA WARA WARA WARA WARA WARA WA				
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FORM OP-D03 - EMISSIC		TION - SECTI	ION D						
D03.00 – GENERAL EMIS	SION UNITS		Leine	,	DIANTAG	VEAD SUBJECT			
INSTALLATION NAME Magnitude 7 Metals, LLC			143		PLANT NO. 0008	YEAR SUBMITTED 2019			
EMISSION UNIT ID EU5130 (0298-001)		EIQ REFERENCE EP-100	E NUMBER (ID)		SOURCE GLASSIFICATION CODE (SCC) 3-03-003-12				
1. EMISSION UNIT DESC	DIDTION								
INSTALLATION'S NAME FOR TH									
DESCRIPTION OF EMISSION Kn	eader for Anode Paste P	rocess							
MANUFACTURER KO-KNEADER MODEL NO./SERIAL NO. K6000KE-9 5D/G160F									
CONSTRUCTION DATE	rch 2000		MAXIMUM HOURLY DE 40 tons/hour	SIGN RAT	E				
STACK NO. S-100	TEMPERATURE		⁷⁷ ∘ F	FLOW	ow rate 12,000 ft ³ /1				
				Assassas and a second					
2. ASSOCIATED AIR POI CONTROL DEVICE TYPE	LLUTION CONTRO	POLLUTAI	IT NT(S) CONTROLLED	CONTRO	OL EFFICIENCY	CAPTURE EFFICIENCY			
Coke Dry Scrubber (071)	•	PM, VOC			. 95 76				
ADDITIONAL CONTROL DEVICE	TYPE	POLLUTAI	NT(S) CONTROLLED	CONTR	OL EFFICIENCY %	CAPTURE EFFICIENCY %			
N/A		Te and a desired to			70	76			
3. APPLICABLE REQUIR	EMENTS				·				
POLLUTANT		LE REQUIREMENT , CFR#, PERMIT N				IT OR STANDARD ING UNITS)			
PM	10-6.400 Proces	ss Weight Ru	le	42.5	42.53 lb/hr				
Opacity	10-6.220 Opaci	ty Requireme	ents	20%	20%				
POM	40 CFR Part 63	, Subpart LL			Route emissions through a dry coke scrubber; monitor coke and air flows.				
NOTE: The applicable re been applied to this emi	ı equirements from ssion unit. See F	40 CFR Part form F01.00 f	t 63, Subpart LL for explanation	from EF	P-75 in Operating	Permit 2001062 have			
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FORM OP-D03 - EMISSIO		TION - SECT	ION D	*********	000000000000000000000000000000000000000			
D03.00 – GENERAL EMIS	SION UNITS							
INSTALLATION NAME Magnitude 7 Metals, LLC	;		143		PLANT NO. 0008	YEAR SUBMITTED 2019		
EMISSION UNIT ID EU5140 (0298-001)		EIQ REFERENCE EP-100	CE NUMBER (ID)		source classification code (scc) 3-03-003-12			
1. EMISSION UNIT DESC	RIPTION	I .			1			
INSTALLATION'S NAME FOR THI	S EMISSION Pitch Weig	gh Pot						
DESCRIPTION OF EMISSION Pito	ch Weigh Pot for Anode I	Paste Process						
MANUFACTURER Fluidisastion					MODEL NO./SERIAI N/A	NO.		
CONSTRUCTION DATE Ma	rch 2000		MAXIMUM HOURLY DE 40 tons/hour	SIGN RA	TE			
STACK NO. S-100	TEMPERATURE		⁷⁷ ∘F	FLOW	/ RATE	^{12,000} ft ³ /min		
2. ASSOCIATED AIR POI	LUTION CONTRO	OL EQUIPMEN	IT					
CONTROL DEVICE TYPE			NT(S) CONTROLLED	CONTR	ROLEFFICIENCY	GAPTURE EFFICIENCY 100 %		
Coke Dry Scrubber (071)	T3 (5)	PM, VOC	PETON AONTDOLLED	OONTE	95	CAPTURE EFFICIENCY		
ADDITIONAL CONTROL DEVICE	IYPE	POLLUTA	NT(S) CONTROLLED	CONTR	ROL EFFICIENCY %			
N/A								
3. APPLICABLE REQUIR	EMENTS			- f				
POLLUTANT	(CSR#	LE REQUIREMEN , CFR#, PERMIT N	VO., ETC.)		(INCLU	MIT OR STANDARD DING UNITS)		
PM	10-6.400 Proce	ss Weight Rเ	ıle	42.	53 lb/hr			
Opacity	10-6.220 Opaci	ty Requireme	ents	209	%			
		•						
					100 933			
					. ———			
	J., ,	DUPLICATE	THIS FORM AS N	EEDEI)			

MAXIMUM HOURIS PER SUBMITTED 2019 SOUTH HOUSE PLANT NO. ODG 2019 2019	FORM OP-D03 - EMISSIO		TION - SEC	TION D					
Magnitude 7 Metals, LLC		SION UNITS							
EU5150, 5160 (0289-001) EP-100 3-03-003-12 1. EMISSION UNIT DESCRIPTION INSTALATIONS NAME FOR THIS EMISSION Pitch Pumps DESCRIPTION OF EMISSION Pitch Pumps for Anode Pladed Process WANDERGURER Videor WARRIESTORIES MARKENDAM TO EMISSION Pitch Pumps for Anode Pladed Process WARRIESTORIES MARKENDAM TO EMISSION Pitch Pumps for Anode Pladed Process WARRIESTORIES MARKENDAM TO EMISSION Pitch Pumps for Anode Pladed Process WARRIESTORIES MARKENDAM TO EMISSION Pitch Pumps for Anode Pladed Process WARRIESTORIES									
DESCRIPTION OF EMISSION Pitch Pumps for Ancide Padre Process MANUFACTURER WATCH MARCH 2000 MANYMIM HOURLY DESIGN RATE 40 lore/hos/ STACK NO. STORM TEMPERATURE 77 or FLOW HATE 12,000 ft ² /min 2. ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT Colling Type Pollut RATIFS CONTROLLED OCNTROL EFFICIENCY Constant giava loading ADDITIONAL CONTROL DEVICE TYPE POLLUTANTIS) CONTROLLED OCNTROL EFFICIENCY CONTROL EFFICIENCY ADDITIONAL CONTROL EVER POLLUTANTIS) CONTROLLED APPLICABLE REQUIREMENTS POLLUTANT APPLICABLE REQUIREMENTS POLLUTANT APPLICABLE HEQUIREMENT AUTHORITY CIGSRic OFFIR PERMIT NO, ETC). PM 10-6.400 Process Weight Rule 42.53 lb/hr Opacity 10-6.220 Opacity Requirements 20%		3-001)		NCE NUMBER (ID)					
DESCRIPTION OF EMISSION Pitch Pumps for Ancide Padre Process MANUFACTURER WATCH MARCH 2000 MANYMIM HOURLY DESIGN RATE 40 lore/hos/ STACK NO. STORM TEMPERATURE 77 or FLOW HATE 12,000 ft ² /min 2. ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT Colling Type Pollut RATIFS CONTROLLED OCNTROL EFFICIENCY Constant giava loading ADDITIONAL CONTROL DEVICE TYPE POLLUTANTIS) CONTROLLED OCNTROL EFFICIENCY CONTROL EFFICIENCY ADDITIONAL CONTROL EVER POLLUTANTIS) CONTROLLED APPLICABLE REQUIREMENTS POLLUTANT APPLICABLE REQUIREMENTS POLLUTANT APPLICABLE HEQUIREMENT AUTHORITY CIGSRic OFFIR PERMIT NO, ETC). PM 10-6.400 Process Weight Rule 42.53 lb/hr Opacity 10-6.220 Opacity Requirements 20%	1 EMISSION LINIT DESC	RIPTION	1						
MANUFACTURER Victor CONSTRUCTION DATE March 2000 TEMPERATURE TO OF POLIUTANT(S) CONTROLE POLIUTANT(S) CONTROLE POLIUTANT(S) CONTROLE POLIUTANT(S) CONTROLE CONTROLEFFICIENCY ADDITIONAL CONTROL DEVICE TYPE POLIUTANT(S) CONTROLLED CONTROLEFFICIENCY APPLICABLE REQUIREMENT AUTHORITY CSRIL, CIFRIL, PERMIT NO., ETC.) EMISSION LIMIT ON STANDARD (NOCLUDING UNITS) POLIUTANT Opacity 10-6.220 Opacity Requirements 20%	INSTALLATION'S NAME FOR THI	IS EMISSION Pitch Pum	ps	55 (50 cm)					
MANUFACTURER Victor March 2000 TEMPERATURE 77 oF FLOW RATE 12,000 ft 3/min 2. ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT CONTROL DEVICE TYPE POLLUTANT(S) CONTROLLED POLLUTANT(S) CONTROLLED CONTROL EFFICIENCY ADDITIONAL CONTROL DEVICE TYPE POLLUTANT(S) CONTROLLED CONTROL EFFICIENCY APPLICABLE REQUIREMENTS EMISSION LIMIT ON STANDARD (INCLUDING UNITS) DOBACILITANT Opacity 10-6.220 Opacity Requirements 20%									
VICTOR TRILOTION DATE March 2000 TEMPERATURE STACK NO: SHOO TEMPERATURE TO OF SHOO TO TO OF SHOO TO TO OF SHOO TO TO OF SHOO TO	DESCRIPTION OF EMISSION Pito	ch Pumps for Anode Pas	ite Process						
STACK NO. STACK		4,	M. 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1				NO.		
S-100 2. ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT CONTROL DEVICE: TYPE		arch 2000	· · · · · · · · · · · · · · · · · · ·		SIGN RATE				
S-100 2. ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT CONTROL DEVICE: TYPE	STACK NO.	TEMPERATURE			FLOW R	ATE			
CONTROL DEVICE TYPE Coke Dy Scrubber (071) PM, VOC Constant grain loading ADDITIONAL CONTROL DEVICE TYPE N/A 3. APPLICABLE REQUIREMENTS POLLUTANT POLLUTANT POLLUTANT POLLUTANT APPLICABLE REQUIREMENT AUTHORITY (ISSIR, CFRIK, PERMIT NO., ETC.) PM 10-6.400 Process Weight Rule 20% 10-6.220 Opacity Requirements 20% CAPTURE EFFICIENCY ACTURE ACTUR	S-100						^{12,000} ft ³ /min		
Coke Dry Scrubber (071) PM. VOC Constant grain loading % 100 % ADDITIONAL CONTROL DEVICE TYPE N/A 3. APPLICABLE REQUIREMENTS POLLUTANT (SPA), CERM, PERMIT NO., ETC.) PM 10-6.400 Process Weight Rule 42.53 lb/hr Opacity 10-6.220 Opacity Requirements 20%		LLUTION CONTRO			CONTO	CECIOIENOV	OARTHRE EEGGENOV		
Coke by Seruber (071) ADDITIONAL CONTROL DEVICE TYPE N/N 3. APPLICABLE REQUIREMENTS POLLUTANT APPLICABLE REQUIREMENT AUTHORITY (CSRR, CFRR, PERMIT NO., ETC.) PM 10-6.400 Process Weight Rule 42.53 lb/hr Opacity 10-6.220 Opacity Requirements 20%						0/2			
N/A 3. APPLICABLE REQUIREMENTS POLLUTANT POLLUTANT APPLICABLE HEQUIREMENT AUTHORITY (CSPIII, CFRII, PERMIT NO., ETC.) PM 10-6.400 Process Weight Rule 42.53 lb/hr Opacity 10-6.220 Opacity Requirements 20%	•					nt grain loading			
3. APPLICABLE REQUIREMENTS POLLUTANT APPLICABLE HEQUIREMENT AUTHORITY COSHI, OFFIR, PERMIT NO, ETC.) PM 10-6.400 Process Weight Rule 42.53 lb/hr Opacity 10-6.220 Opacity Requirements 20%	ADDITIONAL CONTROL DEVICE	TYPE	POLLU	TANT(S) CONTROLLED	CONTRO				
POLLUTANT APPLICABLE REQUIREMENT AUTHORITY (CSRW, CFRW, PERMIT NO., ETC.) PM 10-6.400 Process Weight Rule 42.53 lb/hr Opacity 10-6.220 Opacity Requirements 20% Indicate the control of	N/A						/		
PM 10-6.400 Process Weight Rule 42.53 lib/hr Opacity 10-6.220 Opacity Requirements 20%	3. APPLICABLE REQUIR	EMENTS							
Opacity 10-6.220 Opacity Requirements 20%	POLLUTANT	APPLICABI (CSR#	LE REQUIREME , CFR#, PERMI	ENT AUTHORITY I' NO., ETC.)					
Opacity 10-6.220 Opacity Requirements 20% In the second of the second o	PM	10-6.400 Proce	ss Weight F	Rule	42.53	3 lb/hr			
			-						
	Opacity	10-6.220 Opaci	ty Requiren	nents	20%				
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FORM OP-D03 - EMISSIO		TION - SEC	CTION	1 D		200000000000000000000000000000000000000				
D03.00 - GENERAL EMIS	SION UNITS									
installation name Magnitude 7 Metals, LLC				FIPS 143		PLANT NO. 0008	YEAR SUBMITTED 2019			
EU5200 (0298-001)		EIQ REFERE EP-101	NCE N	IUMBER (ID)	***	SOURCE CLASSIFICA 3-03-003-12	TION CODE (SCC)			
1. EMISSION UNIT DESC	RIPTION									
INSTALLATION'S NAME FOR THI	S EMISSION Slide Gate		•							
DESCRIPTION OF EMISSION Slid	le Gate for Fraction Hand	dling								
MANUFACTURER Rotolok						MODEL NO./SERIAL NO. 16" square				
CONSTRUCTION DATE Ma	rch 2000			KIMUM HOURLY DE: ons/hour	SIGN RA	ΓĒ				
STACK NO. S-101	TEMPERATURE			⁷⁷ °F	FLOW	RATE	⁴⁷⁰⁰ ft ³ /min			
	SSOCIATED AIR POLLUTION CONTROL EQUIPMENT ROL DEVICE TYPE POLLUTANT(S) CONTROLLED C				000	OL FEETOENOV	CAPTURE EFFICIENCY			
CONTROL DEVICE TYPE Baghouse (018)		POLEU	1ANT(S) CONTROLLED		OL EFFICIENCY tant grain loading	100 %			
ADDITIONAL CONTROL DEVICE	TYPE		TANT(S) CONTROLLED		OL EFFICIENCY	CAPTURE EFFICIENCY			
N/A						%	%			
3. APPLICABLE REQUIR	EMENTS									
POLLUTANT	APPLIGABL (CSR#,	E REQUIREMI CFR#, PERMI	ENT AL T NO.,	JTHORITY ETC.)			IIT OR STANDARD DING UNITS)			
PM	10-6.400 Proces	ss Weight I	Rule		42.5	53 lb/hr				
Opacity	10-6.220 Opacit	y Requirer	nents	3	20%	20%				
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		DUPLICAT	TE TH	IIS FORM AS N	EEDED					

FORM OP-D03 - EMISSIO		TION - SEC	TION D					
D03.00 - GENERAL EMIS INSTALLATION NAME	SION UNITS		FIPS		PLANT NO.	YEAR SUBMITTED		
Magnitude 7 Metals, LLC			143		8000	2019		
EMISSION UNIT ID EU5210, 5 5250, 5260 (0298-001)	220, 5230, 5240,	EIQ REFERE EP-101	NCE NUMBER (ID)		SOURCE CLASSIFICA 3-03-003-12	TION CODE (SCC)		
1. EMISSION UNIT DESC								
INSTALLATION'S NAME FOR THI	S EMISSION Screw Cor	nveyors						
DESCRIPTION OF EMISSION Ser	rew Conveyors for Fraction	on Handling						
		-						
MANUFACTURER Conveyor & Drive Equipment Co).				MODEL NO./SERIAL N/A	NO.		
CONSTRUCTION DATE Ma	rch 2000		MAXIMUM HOURLY DE 40 tons/hour	SIGN RAT	Ē			
STACK NO.	TEMPERATURE		<u></u>	FLOW	RATE	78 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
S-101			77 °F			⁴⁷⁰⁰ ft ³ /min		
2. ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT CONTROL DEVICE TYPE POLLUTANT(S) CONTROLLED					or numbers	CARTURE CECOUNAY		
CONTROL DEVICE TYPE Baghouse (018)	РМ				DL EFFICIENCY % ant grain loading	CAPTURE EFFICIENCY 100 %		
ADDITIONAL CONTROL DEVICE	TYPE				DL EFFICIENCY	CAPTURE EFFICIENCY		
N/A		, , , , , , , , , , , , , , , , , , , ,			%	%		
3. APPLICABLE REQUIR	EMENTS							
POLLUTANT		E REQUIREME CFR#, PERMI	ENT AUTHORITY T'NO., ETC.)			IIT OR STANDARD DING UNITS)		
PM	10-6.400 Proces	ss Weight F	Rule	42.5	3 lb/hr			
Opacity	10-6.220 Opacit	y Requiren	nents	20%)			
		nerske en redekte en kelende en en en kelke kelade						
			eren f nfrygg f gyn i meil de lae ar de geleg e					
		DUPLICAT	E THIS FORM AS N	EEDED				

FORM OP-D03 - EMISSIC		TION - SEC	TION D							
D03.00 - GENERAL EMIS	SION UNITS									
INSTALLATION NAME Magnitude 7 Metals, LLC)		FIPS 143			PLANT NO. 0008		YEAR SUBMITTED 2019		
EMISSION UNIT ID EU5270 (0298-001)		EIQ REFEREI EP-101	NCE NUMBER (ID)			SOURCE CLASSIF 3-03-003-12	CATION	CODE (SCC)		
1. EMISSION UNIT DESC INSTALLATION'S NAME FOR TH										
DESCRIPTION OF EMISSION AIR	Veyor for Fraction Handl	ing								
MANUFACTURER Peters Jet Conveyor						MODEL NO /SERIAL NO. N/A				
CONSTRUCTION DATE	arch 2000		MAXIMUM HOUI 40 tons/hour	RLY DE	SIGN RAT	TE				
STACK NO.	TEMPERATURE				FLOW	DATE				
S-101			77	°F	PLOW	DATE.		⁴⁷⁰⁰ ft ³ /min		
2. ASSOCIATED AIR POI	LLUTION CONTRO	L EQUIPME	ENT							
CONTROL DEVICE TYPE Baghouse (018)		POLLUT	TANT(S) CONTRO	LED		OL EFFICIENCY tant grain loading	6 CAF	TURE EFFICIENCY 100 %		
ADDITIONAL CONTROL DEVICE	TYPE	POLLUT	TANT(S) CONTROL	LED	CONTRO	OL EFFICIENCY	CAF	TURE EFFICIENCY		
N/A						9	6	· %		
3. APPLICABLE REQUIR	EMENTS									
POLLUTANT		E REQUIREME CFR#, PERMIT	NT AUTHORITY (NO., ETC.)				LIMIT OF LUDING I	ISTANDARD JNITS)		
PM	10-6.400 Proces	s Weight F	Rule		42.5	53 lb/hr				
Opacity	10-6.220 Opacit	y Requirem	nents		20%					
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FORM OP-D03 - EMISSIC		TION - SECT	TION D			300000000000000000000000000000000000000	
D03.00 – GENERAL EMIS	SION UNITS						
INSTALLATION NAME Magnitude 7 Metals, LLC	2		FIPS 143		PLANT NO. 0008	YEAR SUBMITTED 2019	
EMISSION UNIT ID EU5300, 5310 (0298	3-001)	EIQ REFEREN EP-102	CE NUMBER (ID)		SOURCE CLASSIFICA 3-03-003-12	TION CODE (SCC)	
1. EMISSION UNIT DESC	RIPTION						
INSTALLATION'S NAME FOR TH	IS EMISSION Screw Cor	iveyors					
DESCRIPTION OF EMISSION SC	rew Conveyors for Propo	rtioning System					
MANUFACTURER Conveyor & Drive Equipment Co).	,			MODEL NO./SERIAL 16"x32'1/4"	NO.	
CONSTRUCTION DATE Ma	arch 2000		MAXIMUM HOURLY DE 40 tons/hour	SIGN RA	TE		
STACK NO.	TEMPERATURE			T FLOW	RATE		
S-102			⁷⁷ °F			⁴⁷⁰⁰ ft ³ /min	
2. ASSOCIATED AIR PO	LLUTION CONTRO	L EQUIPME	NT ANT(S) CONTROLLED	CONTR	OL EFFICIENCY	CAPTURE EFFICIENCY	
Baghouse (018)		PM			stant grain loading	100 %	
ADDITIONAL CONTROL DEVICE	TYPE				OL EFFICIENCY	CAPTURE EFFICIENCY	
N/A					%	%	
3. APPLICABLE REQUIR	EMENTS						
POLLUTANT		E REQUIREMEN CFR#, PERMIT				IIT OR STANDARD DING UNITS)	
PM	10-6.400 Proces	ss Weight R	ule	42.	53 lb/hr		
Opacity	10-6.220 Opacit	ty Requirem	ėnts	20%			
- Commission of the Commission		***************************************					
	1	DUPLICATE	THIS FORM AS N	EEDED)		

FORM OP-D03 - EMISSIO		TION - SEC	TION D					
D03.00 – GENERAL EMIS	SION UNITS							
INSTALLATION NAME Magnitude 7 Metals, LLC	·		FIPS 143		PLANT NO. 0008	YEAR SUBMITTED 2019		
_	•							
EMISSION UNIT ID		EIQ REFERE	NCE NUMBER (ID)		SOURCE CLASSIFICA	ATION CODE (SCC)		
EU5320 (0298-001)		EP-102			3-03-003-12			
1. EMISSION UNIT DESC	RIPTION				1,			
INSTALLATION'S NAME FOR THI		vator						
DESCRIPTION OF EMISSION But	cket Elevator for Proportion	oning System						
	, .							
MANUFACTURER					MODEL NO./SERIAL	NO		
Webb					MHE Belt Type	. IVO.		
CONSTRUCTION DATE	unh 0000		MAXIMUM HOURLY DE 40 tons/hour	SIGN RA	ATE			
Ma	rch 2000		10 10110/11001					
STACK NO.	TEMPERATURE			FLOW	/ RATE			
S-102			⁷⁷ ∘F			⁴⁷⁰⁰ ft ³ /min		
2. ASSOCIATED AIR POL	THITION CONTRO	I FOLIIDM	-NT					
CONTROL DEVICE TYPE		POLLU	TANT(S) CONTROLLED	CONTR	ROL EFFICIENCY	CAPTURE EFFICIENCY		
Baghouse (018) PM				Con	stant grain loading %	100 %		
ADDITIONAL CONTROL DEVICE	l l				ROL EFFICIENCY	CAPTURE EFFICIENCY		
	1176	1 OLLO	FANT(S) CONTROLLED	CONT	%	%		
N/A					, -			
3. APPLICABLE REQUIR	EMENTS							
DOLLA ITANIT	APPLICABL	E REQUIREME	NT AUTHORITY			MIT OR STANDARD		
POLLUTANT	(CSR#,	CFR#, PERMI	۲ NO., ETC.)		(INCLU	DING UNITS)		
PM	10-6.400 Proces	s Weight F	Rule	42.	53 lb/hr	**************************************		
		•						
Opacity	10-6.220 Opacit	v Requiren	nents	20°				
Opaoity	10 0:EE0 Opdon	y moquinon	101110		,0			
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FORM OP-D03 - EMISSIC		TION - SEC	TION D	enggyikapakkiai		
D03.00 - GENERAL EMIS	SION UNITS					
INSTALLATION NAME Magnitude 7 Metals, LLC			FIPS 143		PLANT NO. 0008	YEAR SUBMITTED 2019
EMISSION UNIT ID EU5330 (0298-001)	II JA A A HAMA HAMA ARABA ARAB	EIQ REFEREI EP-102	NCE NUMBER (ID)		SOURCE CLASSIFIC/ 3-03-003-12	ATION CODE (SCC)
1. EMISSION UNIT DESC	RIPTION	<u> </u>	WATER CHARGE TO THE TOTAL CONTROL CONT			
INSTALLATION'S NAME FOR TH	S EMISSION Preheating	Screw Convey	or			
DESCRIPTION OF THEOLOGY D			0			
DESCRIPTION OF EMISSION Pre	eneating Screw Conveyo	r tor Proportionii	ng System			
MANUFACTURER N/A					MODEL NO./SERIAL Type Q2424-8"	NO.
CONSTRUCTION DATE Ma	rch 2000		MAXIMUM HOURLY DE 40 tons/hour	SIGN RA	TÈ	•
STACK NO. S-102	TEMPERATURE		⁷⁷ °F	FLOW	RATE	⁴⁷⁰⁰ ft ³ /min
2. ASSOCIATED AIR PO	LUTION CONTRO	L EQUIPME	ENT	1000	ol region lov	Lovering agreement
CONTROL DEVICE TYPE			TANT(S) CONTROLLED		OL EFFICIENCY stant grain loading	CAPTURE EFFICIENCY 100 %
Baghouse (018) ADDITIONAL CONTROL DEVICE	TYPE	PM POLLU	TANT(S) CONTROLLED	CONTR	CAPTURE EFFICIENCY	
N/A	.,, -				%	%
3. APPLICABLE REQUIR	EMENTS					
POLLUTANT	APPLICABLE REQUIREMENT AUTHORITY (CSR#, CFR#, PERMIT NO., ETC.)					MIT OR STANDARD DING UNITS)
PM	10-6.400 Proces	ss Weight F	Rule	42.	53 lb/hr	
Opacity	10-6.220 Opacit	ty Requiren	nents	20%	6	
		4-900-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2				
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FORM OP-D03 - EMISSIO		TION - SEC	TION D					
D03.00 - GENERAL EMIS	SION UNITS		Elbe		PLANT NO.	YEAR SUBMITTED		
INSTALLATION NAME Magnitude 7 Metals, LLC	,		143		0008	2019		
EMISSION UNIT ID EU5400 (0298-001)		EIQ REFERE EP-108	NCE NUMBER (ID)		SOURCE CLASSIFICA 3-03-003-12	ATION CODE (SCC)		
1. EMISSION UNIT DESC INSTALLATION'S NAME FOR THE		2 Pad Prost C	tation					
INSTALLATION'S NAME FOR THE	5 EMISSION PRASE 1 &	2 H00 Brush Si	ration					
DESCRIPTION OF EMISSION Pha	ase 1 & 2 Rod Brush Sta	tion						
MANUFACTURER Aisco					MODEL NO./SERIAL NO. N/A			
CONSTRUCTION DATE Ma	rch 2000		MAXIMUM HOURLY DE 40 tons/hour	SIGN RA	TĖ			
STACK NO. S-108	TEMPERATURE		. 77 °F	FLOW	RATE	¹⁰⁰⁰ ft ³ /min		
2. ASSOCIATED AIR POL	LUTION CONTRO	L EQUIPMI	ENT					
CONTROL DEVICE TYPE	· · · · · · · · · · · · · · · · · · ·	POLLU	TANT(S) CONTROLLED		OLEFFICIENCY %	CAPTURE EFFICIENCY 100 %		
Baghouse (018)	ghouse (018) PM DITIONAL CONTROL DEVICE TYPE POLLU				etant grain loading	. CAPTURE EFFICIENCY		
N/A	·			CONTR	%	%		
3. APPLICABLE REQUIR	EMENTS							
U. ALLEVADLE DESCIN								
POLLUTANT	(CSR#,	ENT AUTHORITY I NO., ETC.)		(INCLU	MIT OR STANDARD DING UNITS)			
PM	10-6.400 Proces	ss Weight F	Rule	42.	53 lb/hr			
Opacity	10-6.220 Opacit	ty Requiren	nents	20%	<i>l</i> o			
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		SOUTHER SECTION SECTIO						
		12100112011111111111111111111111111111						
		DUPLICAT	E THIS FORM AS N	EEDEC)			

FORM OP-D03 - EMISSIC		TION - SEC	TION D				
D03.00 - GENERAL EMIS INSTALLATION NAME	SION UNITS		FIPS		PLANT NO.	I Ve	R SUBMITTED
Magnitude 7 Metals, LLC			143		0008	20	
EMISSION UNIT ID EU5410 (0298-001)		EIQ REFERE EP-109	NCE NUMBER (ID)		SOURCE CLASSIFIC 3-03-003-12	CATION COD	E (SCC)
1. EMISSION UNIT DESC							
INSTALLATION'S NAME FOR TH	IS EMISSION Phase 3 R	od Brush Statio	n				
DESCRIPTION OF EMISSION Pha	ase 3 Rod Brush Station	×4.					
MANUFACTURER Aisco					MODEL NO./SERIA N/A	L NO.	
CONSTRUCTION DATE Ma	rch 2000		MAXIMUM HOURLY DE 40 tons/hour	SIGN RA	TE		
STACK NO. S-109	TEMPERATURE		⁷⁷ ∘F	FLOW	RATE		¹⁰⁰⁰ ft ³ /min
2. ASSOCIATED AIR POI	LUTION CONTRO						
CONTROL DEVICE TYPE		POLLU	TANT(S) CONTROLLED	CONTR	IOL EFFICIENCY	i	E EFFICIENCY 100 %
Baghouse (018)					stant grain loading		76
ADDITIONAL CONTROL DEVICE	TYPE	POLLU	TANT(S) CONTROLLED	CONTR	OL EFFICIENCY %		E EFFICIENCY %
N/A		A POLICE AND A POL			7]	70
3. APPLICABLE REQUIR	EMENTS						
POLLUTANT		E REQUIREME CFR#, PERMIT	ENT AUTHORITY FNO.; ETC.)			IMIT OR STA JDING UNITS	
PM	10-6.400 Proces	ss Weight F	Rule	42.	53 lb/hr		
Opacity	10-6.220 Opacit	y Requiren	nents	20%	6		
			·				
	,	-	,				

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		DUPLICAT	E THIS FORM AS N	EEDED	•		

FORM OP - DU3 EMISSION UNIT INFORMATION

plicate of Form MO 780-1519 (REV, April 11, 1996)

acility Name		C	ounty No.	Plant N	lo. Year of Data
Noranda Aluminum	, Inc.	F	FIPS 143	8000	1997
nission Point No. EP-24	Emission Unit No. EU-24-01	and the second section of the second second		Classification XXXX	n Code (SCC)
1. Emission Unit(s) Info	malion				
Description of Unit(s)		Manufacturer, Date of Mar	Model No., nufacture	Stack IDs	Maximum Design Rate/Capacity
Bucket Elevator with Moto		The Ehrsam Co., 1	970	S-24	5.48 tons/hr
				2000 - 10 <u>1111 1111 1111 1111 1111 1111 </u>	
And the same of th	COLORS CONTRACTOR CONT				
Name to the second seco		Management of the state of the	an en en gregor destromon en en las en en deleté en entrote.	. Mile de la colonia como me	and the second s
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		The last continue of the second secon			A manager of a period of a management of the control of the contro
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The second secon	The control of the co	Marie Wart Co. of the			
			100 C 10		
			generalism manageria (n. 1942).		
	l under an alternate operating scenario? If Yes, you must complete a separate	Section D.2	•		Total Maximum Design Rate/Capacity
	on FORM OP - D03 for each scenario.				5.48 tons/hr
Alternate Operating So	enano (Flexibility)				
Alternate Scenario ID:		سادت ا	Code Associate	ad Mills Oceis	ario.
- Landau Cara Cara Cara Cara Cara Cara Cara Ca			TO STATE OF THE PARTY OF THE PA	Marie Carlos de la companya de la c	
Description					
		en e	a artificial and a service of a 11 to 200 and an appropriate		
Market Control of the		The state of the s	Married Married Control of the Contr		CONTRACTOR OF THE CONTRACTOR O
Mark to a second					A CONTRACTOR OF THE SECOND CONTRACTOR OF THE S
			erenten an en	name. San	
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				and the second second second	
			The state of the s	,	Annual Company of the
Antonia de la companya del companya del companya de la companya de					
Condition(s)	ditions for reducing potential emissions. Description	CONCURORS WILLDEGO	Limit	Cheer with a some market of a law up to service and	Pollutent Controlled
Requested	· ·				
And the second s		·	#1844 ***********************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	A THE CONTROL OF THE
			manifel cannot be a superior of the Christian to the		The second secon
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FORM OP-D03 - EMISS							
D03.10 - BOILERS, FUI	RNACES AND OTHE	R INDIRECT H	EATING SOURC	±5	PLANT NUMBER	YEAR SUBMITTED	
Magnitude 7 Metals, LLC			143		8000	2019	
EMISSION UNIT ID		EIQ REFERENCE N	UMBER		SOURCE CLASSIFICAT	ION CODE	
1. EMISSION UNIT DES	SCRIPTION EMISSION UNIT						
DESCRIPTION OF EMISSION UNIT							
MANUFACTURER			032, OP20010		1 :	NO.	
1			orated by refer s form OP-F01		xcept as		
CONSTRUCTION DATE			· · · · · · · · · · · · · · · · · · ·			MM BTU/	
2. FUEL DATA							
PRIMARY FUEL TYPE AND GRADE	<u> </u>			MAXIMI	JM SULFUR CONTENT		
SECONDARY FUEL TYPE AND GR	ADE			MAXIMI	JM SULFUR CONTENT		
3. ASSOCIATED AIR P	OLI LITION CONTRO	N FOLIPMEN	Ī				
CONTROL DEVICE TYPE				POLLUTA	NT(S) CONTROLLED	CONTROL EFFICIENCY	
ADDITIONAL CONTROL DEVICE T	YPE .			POLLUTA	ANT(S) CONTROLLED	CONTROL EFFICIENCY	
4. APPLICABLE REQU	IREMENTS						
POLLUTANT		REQUIREMEN R#, CFR#, PER	IT AUTHORITY MIT NO.)	EMISSION LIMIT OR STANDAR (INCLUDING UNITS)			
	for a summar	ry of all Emiss	ary of Applical tion Units, thei ssion limit or s	r applic	able		
		DUPLICATE 1	'HIS FORM AS N	NEEDED		***************************************	
MO 780-1519 (01-17)							

FORM OP-D03 - EMISSIC							
D03.20 - COMBUSTION T INSTALLATION NAME	URBINES AND IN	ITERNAL COMB	USTION ENGIN	IES	PLANT NO.	YEAR SUBI	MITTED
Magnitude 7 Metals, LLC			143		0008	2019	
EMISSION UNIT ID		EIQ REFERENCE NU	MBER (ID)		SOURCE CLASSIFICATI	ON CODE (SCC)	
N/A		N/A			N/A		
1. EMISSION UNIT DESC	RIPTION ISSIGN UNIT						
N/A							
DESCRIPTION OF EMISSION UNIT:							:
N/A							
MANUFACTURER					MODEL NO./SERIAL N	Ö.	
N/A					N/A		
CONSTRUCTION DATE			MAXIMUM HOL	RLY DESI	GN RATE		
			N/A				MM BTU/hr
DESIGN RATED POWER OUTPUT		UNITS		RATIONAL	POWER OUTPUT		UNITS
N/A			N/A				N/A
2. FUEL DATA PRIMARY FUEL TYPE AND GRADE				RAN Vina	IM SULFUR CONTENT		
N/A				N/A	IN SULFUR CONTENT		. %
SECONDARY FUEL TYPE AND GRADI				MAXIMUM SULFUR CONTENT			
N/A				N/A			%
3. ASSOCIATED AIR POI	LUTION CONTRO	OL EQUIPMENT		LEGULIT	ANT(S) CONTROLLED	CONTROL EFFI	CIENCY
N/A				N/A		N/A	%
ADDITIONAL CONTROL DEVICE TYPE		•		POLLUT	ANT(S) CONTROLLED	CONTROL EFFI	
N/A				N/A		N/A	%
4. APPLICABLE REQUIR	EMENTS						
POLLUTANT		REQUIREMENT 6R#, CFR#, PERI		Y EMISSION LIMIT OR STANDARD (INCLUDING UNITS)			
N/A		N/A				N/A	

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		DUPLICATE TH	IIS FORM AS N	IEEDEC)		
MO 780-1519 (01-17)							

FORM OP-D03 - EMISSIC		TION - SEC	CTION	D	special control		programma.			
D03,30 - SPRAY BOOTHS INSTALLATION NAME	3			FIPS		PLANT NO.		YEAR SUBMITT	ED	
Magnitude 7 Metals, LLC				43		0008		2019		
EMISSION UNIT ID		EIQ REFERENC				SOURCE CLASS	IFICATIO		er e	
N/A		N/A				N/A				
1. EMISSION UNIT DESC]								
N/A										
DESCRIPTION OF EMISSION UNIT			*******						·	
N/A										
MANUFACTURER						MODEL NO./SE	RIAL NO	l.		
N/A						N/A				
CONSTRUCTION DATE	······································		MAXIM	UM HOURLY DESIG	N RATE					
			N/A					GALLO	ONS/HR	
STACK NO.	TEMPERATURE		.J		FLOW F	RATE			2 .	
N/A	N/A			°F	N/A			-	FT ³ /MIN	
2. COATING DATA COATING NAME WITH HIGHEST DEN:	SITY				DENSIT	Y				
N/A					N/A			POUNDS/G	ALLON	
COATING NAME WITH HIGHEST PER	CENT SOLIDS BY WEIGHT				PERCE	NT SOLIDS BY WEIGHT				
N/A			N/A			I/A				
COATING APPLICATION METHOD					TRANS	FER EFFICIENCY				
N/A					N/A				%	
ALTERNATE COATING APPLICATION	ALTERNATE COATING APPLICATION METHOD				ALTERI	NATE TRANSFER I	EFFICIEN	CY		
N/A					N/A				%	
3. ASSOCIATED AIR POI	LLUTION CONTRO			ONTROLLED	CONTRO	OL EFFICIENCY		CAPTURE EFFICIENC	Y	
N/A		N/A	//(G) O	ONTROLLED	N/A	L I I I I I I I I I I I I I I I I I I I	%	N/A	%	
ADDITIONAL CONTROL DEVICE TYPE		POLLUT.	TANT(S) C			L EFFICIENCY		CAPTURE EFFICIENC	Υ	
N/A		N/A				%	N/A	%		
4. APPLICABLE REQUIR	EMENTS									
POLLUTANT	APPLICABLE	REQUIREN R#, CFR#, F						IT OR STANDAR	RD	
N/A		N/A						N/A		
		······································								
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	<u> </u>	DUPLICAT	TE THIS	S FORM AS N	EEDED	<u> </u>				

FORM OP-D04 - ALTERNATE OPERAT	ING SCENARIO/VOL	UNTARY COI	NDITIONS - SECTIO	DN D	
D04:00 — ALTERNATE OPERATING SCI	ENARIO/VOLUNTAR	Y CONDITION FIPS	IS PLANT NO.	YEAR SUBMITTED	
Magnitude 7 Metals, LLC		143	0008	2019	
EMISSION UNIT ID	EIQ REFERENCE NUM	MBER (ID)	SOURCE CLAS	SSIFICATION CODE (SCC)	
1. ALTERNATE OPERATING SCENARI	O (FLEXIBILITY)				
ALTERNATE SCENARIO ID		SIC CODE A	SSOCIATED WITH SCENARIO)	
		ODIDTION			
	DES	CRIPTION			
	This form does i	ot apply to I	Magnitude 7		
Metal's renewal application.					
_					
				•	
2. VOLUNTARY PERMIT CONDITIONS					
POLLUTANT CONTROLLED		!	LIMITATION	romano, Al-	
				gry-M-Milatti, itt Attiliant and Attiliant a	
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	DUPLICATE TH	IIS FORM AS	NEEDED		
MO 780-1519 (01-17)					

DOG.O - COMPLIANCE DETERMINATION PERSONALIDITARIE Magnitude 7 Mentals, LLC EMPRESON UNITED EXPERIENCE NUMBER, 100 EXPERIENCE NUMBER, 100 EXPERIENCE NUMBER, 100 EXPERIENCE NUMBER, 100 EMBELION LORT STANDARD APPLICABLE REQUIREMENT OUL TESTING OUL APPLICABLE REQUIREMENT APPLICABLE PROVINCE STANDARD BECORD RESPIRED METHOD BECORD RESPIRED SUIEDULE BECORD RESPIRED METHOD BECORD RESPIRED SUIEDULE BUPULCATE THIS FORM AS NEEDED DUPLICATE THIS FORM AS NEEDED	FORM OP-D05 - COMPLIANCE		ATION METHO	DS — SECTION	I D		
Magnitude 7 Metals, LLC THE STONE MATTER APPLICABLE REQUIREMENT APPLICABLE REQUIREMENT FOLUTION IS LAPSIGN HAMPE ARCHITECTURE APPLICABLE REQUIREMENT FOLUTION IS LAPSIGN HAMPE ARCHITECTURE APPLICABLE REQUIREMENT FOLUTION IS LAPSIGN HAMPE ARCHITECTURE LAPSIGN HAMPE ARCHITECTURE APPLICABLE REQUIREMENT FOLUTION IS LAPSIGN HAMPE ARCHITECTURE FOLUTION IS F		MINATION		Leine		DI ANT NO	VEAR CURMITTED
OMSSIGNUMENTO ESPRENENCE NAMES NO. 1. APPLICABLE REQUIREMENT: POLUTANTIS THE SIGNLEMENT POLUTANTIS							
A-PLICABLE REQUIREMENT A-PLIC			EIO DEFENDENCE N				
EMBRICH INITATION OR STANDARD 2. TESTING: DILL NETMETIOD ***ETMETIOD** **PETMETIOD** **PETMETION** **PET	EMISSION UNIT ID		EIQ REFERENCE N	UMBER (ID)	*	SOURCE CLASSIFICA	ATION CODE (SCC)
EMBRICH INITATION OR STANDARD 2. TESTING: DILL NETMETIOD ***ETMETIOD** **PETMETIOD** **PETMETION** **PET							
2. TESTING OVIE Applicable requirements, testing, monitoring, record keeping, and reporting requirements are all incorporated by reference from operating permits OP2001032, OP2001033, OP2001062, and OP2001066; construction permits 0298-0001, 042013-011, 122007-005, and 032008-009; and PSD Permit 102004-001. See Attachment 3 for a summary of applicable requirements by emission unit and Attachment 4 for a summary of the 40 CFR Part 64 Compliance Assurance Monitoring requirements. 3. MONITORING PARAMETER MONITORING MONITORING SCHEDNIF RECORD KEEPING RECORD KEEPING RECORD KEEPING SCHEDULE RECORD KEEPING SCHEDULE REPORTING SCHEDULE REPORTING SCHEDULE	to consider the result of the result of the result of the results	IT .					
2. TESTING OATE SUMMARY: Applicable requirements, testing, monitoring, record keeping, and reporting requirements are all incorporated by reference from operating permits OP2001.032, OP2001062, and OP2001.066; construction permits 0298-0001, 042013-011, 122007-005, and 032008-009; and PSD Permit 102004-001. See Attachment 3 for a summary of applicable requirements by emission unit and Attachment 4 for a summary of the 40 CFR Part 64 Compliance Assurance Monitoring requirements. 3. MONITORING PARAMETER MONITORING A. RECORD KEEPING PARAMETER MONITORING RECORD KEEPING RECORD KEEPING METHOD RECORD KEEPING BETHOD RECORD KEEPING BETHOD RECORD KEEPING BETHOD RECORD RECORD RECORDED RECORD RECORD RECORDED REPORTING RECORDED RECORD RECORDED REPORTING RECORDED REPORTING RECORDED REPORTING RECORDED REPORTING RECORDED REPORTING RECORDED REPORTING RECORDED RECORD RECORDED REPORTING RECORDED RECORD RECORD RECORDED RECORD RECORDED RECORD REC	APPLICABLE REQUIREMENT			POLLU	TANT(S)		
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FORM OP-D06 - CORE PERMIT REQUIREMENTS - SECTION D						
D06.00 - CORE PERMIT REQUIREMENTS (NOTE: THIS IS A REQUIRED FORM FOR ALL PERMIT APPLICATIONS)						
INSTALLATION NAME	FIPS	PLANT NO.	YEAR SUBMITTED			
Magnitude 7 Metals, LLC	143	0008	2019			

NOTE: The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the code of federal regulations and code of state regulations for the full text of the applicable requirements.

10 CSR 10-6.050, Start-up, Shutdown and Malfunction Conditions

- (a) In the event of a malfunction, which results in excess emissions that exceed one hour, the permittee shall submit to the director within two business days in writing the following information:
 - (1) Name and location of installation.
 - (2) Name and telephone number of person responsible for the installation.
 - (3) Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.
 - (4) Identity of the equipment causing the excess emissions.
 - (5) Time and duration of the period of excess emissions.
 - (6) Cause of the excess emissions.
 - (7) Air pollutants involved.
 - (8) Best estimate of the magnitude of the excess emissions expressed in the units of the applicable requirement and the operating data and calculations used in estimating the magnitude.
 - (9) Measures taken to mitigate the extent and duration of the excess emissions.
 - (10) Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.
- (b) The permittee shall submit the paragraph (a.) information list to the director in writing at least 10 days prior to any maintenance, start-up or shutdown, which is expected to cause an excessive release of emissions that exceed one hour. If notice of the event cannot be given 10 days prior to the planned occurrence, it shall be given as soon as practicable prior to the release. If an unplanned excess release of emissions exceeding one hour occurs during maintenance, start-up or shutdown, the director shall be notified verbally as soon as practical during normal working hours and no later than the close of business of the following working day. A written notice shall follow within 10 working days.
- (c) Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under section 643.140, RSMo, the permittee may provide information showing that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the paragraph (a.) list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information submitted by the permittee or any other pertinent information available, the director or the commission shall make a determination whether the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent and duration of the excess emissions warrant enforcement action under section 643.080 or 643.151, RSMo.
- (d) Nothing in this rule shall be construed to limit the authority of the director or commission to take appropriate action, under sections 643,080, 643,090 and 643.151, RSMo to enforce the provisions of the Air Conservation Law and the corresponding rule.
- (e) Compliance with this rule does not automatically absolve the permittee of liability for the excess emissions reported.

10 CSR 10-6,060, Construction Permits Required

The permittee shall not commence construction, modification or major modification of any installation subject to this rule; begin operation after that construction, modification or major modification; or begin operation of any installation which has been shut down longer than five years without first obtaining a permit from the permitting authority.

10 CSR 10-6.065, Operating Permits

The permittee shall file for renewal of this operating permit no sooner than eighteen months, nor later than six months, prior to the expiration date of this operating permit. The permittee shall retain the most current operating permit issued to this installation on-site and shall immediately make such permit available to any Missouri Department of Natural Resources personnel upon request.

10 CSR 10-6.080, Emission Standards for Hazardous Air Pollutants

40 CFR Part 61 Subpart M, National Emission Standard for Asbestos

- (a) The permittee shall follow the procedures and requirements of 40 CFR Part 61, Subpart M for any activities occurring at this installation which would be subject to provisions for 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos.
- (b) The permittee shall conduct monitoring to demonstrate compliance with registration, certification, notification and Abatement Procedures and Practices standards as specified in 40 CFR Part 61, Subpart M.

FORM OP-D06 - CORE PERMIT REQUIREMENTS - SECTION D							
D06.00 - CORE PERMIT REQUIREMENTS (CONTINUED) (T	HIS IS A REQUIRED FO	ORM FOR ALL PERMIT	APPLICATIONS)				
INSTALLATION NAME	FIPS	PLANT NO,	YEAR SUBMITTED				
Magnitude 7 Metals, LLC	143	0008	2019				

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the code of federal regulations and code of state regulations for the full text of the applicable requirements.

10 CSR 10-6.100, Alternate Emission Limits

Proposals for alternate emission limitations shall be submitted on Alternate Emission Limits Permit forms provided by the department. An installation owner or operator must obtain an Alternate Emission Limits Permit in accordance with 10 CSR 10-6.100 before alternate emission limits may become effective.

10 CSR 10-6.110, Submission of Emission Data, Emission Fees and Process Information

- (a) The permittee shall complete and submit an Emission Inventory Questionnaire, or EIQ, in accordance with the requirements outlined in this rule.
- (b) The permittee shall pay an annual emission fee per ton of regulated air pollutant emitted according to the schedule in the rule. This fee is an emission fee assessed under authority of RSMo. 643.079 to satisfy the requirements of the Federal Clean Air Act, Title V.
- (c) The fees shall be due April 1 each year for emissions produced during the previous calendar year. The fees shall be payable to the Department of Natural Resources and shall be accompanied by the EIQ form or equivalent approved by the director.

10 CSR 10-6.130, Controlling Emissions During Episodes of High Air Pollution Potential

This rule specifies the conditions that establish an air pollution alert (yellow/red), watch or emergency and the associated procedures and emissions reduction objectives for dealing with each. The permittee shall submit an appropriate emergency plan if required by the director.

10 CSR 10-6.150, Circumvention

The permittee shall not cause or permit the installation or use of any device or any other means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.

10 CSR 10-6.170, Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin

- (a) The permittee shall not cause or allow to occur any handling, transporting or storing of any material; construction, repair, cleaning or demolition of a building or its appurtenances; construction or use of a road, driveway or open area; or operation of a commercial or industrial installation without applying reasonable measures as may be required to prevent, or in a manner which allows or may allow, fugitive particulate matter emissions to go beyond the premises of origin in quantities that the particulate matter may be found on surfaces beyond the property line or origin. The nature or origin of the particulate matter shall be determined to a reasonable degree of certainty by a technique proven to be accurate and approved by the director.
- (b) The permittee shall not cause nor allow to occur any fugitive particulate matter emissions to remain visible in the ambient air beyond the property line of origin.
- (c) Should it be determined that noncompliance has occurred, the director may require reasonable control measures as may be necessary.

10 CSR 10-6.180, Measurement of Emissions of Air Contaminants

- (a) The director may require any person responsible for the source of emission of air contaminants to make or have made tests to determine the quantity or nature, or both, of emission of air contaminants from the source. The director may specify testing methods to be used in accordance with good professional practice. The director may observe the testing. All tests shall be performed by qualified personnel.
- (b) The director may conduct tests of emissions of air contaminants from any source. Upon request of the director, the person responsible for the source to be tested shall provide necessary ports in stacks or ducts and other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of the emission of air contaminants.
- (c) The director shall be given a copy of the test results in writing and signed by the person responsible for the tests.

10 CSR 10-6.250, Asbestos Abatement Projects - Certification, Accreditation, and Business Exemption Requirements

The permittee shall conduct all asbestos abatement projects within the procedures established for certification and accreditation by 10 CSR 10-6.250. This rule requires individuals who work in asbestos abatement projects to be certified by the department's Air Pollution Control Program. This rule requires training providers who offer training for asbestos abatement occupations to be accredited by the department's Air Pollution Control Program. This rule requires persons who hold exemption status from certain requirements of this rule to allow the department to monitor training provided to employees. Each individual who works in asbestos abatement projects must first obtain certification for the appropriate occupation from the department. Each person who offers training for asbestos abatement occupations must first obtain accreditation from the department. Certain business entities that meet the requirements for state-approved exemption status must allow the department to monitor training classes provided to employees who perform asbestos abatement.

FORM OP-D06 - CORE PERMIT REQUIREMENTS - SECTION D							
D06.00 - CORE PERMIT REQUIREMENTS (CONTINUED) (T	HIS IS A REQUIRED FO	ORM FOR ALL PERMIT	APPLICATIONS)				
INSTALLATION NAME	FIPS	PLANT NO.	YEAR SUBMITTED				
Magnitude 7 Metals, LLC	143	8000	2019				

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the code of federal regulations and code of state regulations for the full text of the applicable requirements.

Yes No Regulation (Please check the appropriate response regarding applicability)

/ 10 CSR 10-2.070 (Kansas City Metropolitan Area)

/ 10 CSR 10-3.090 (Outstate Area)

10 CSR 10-4.070 (Greene County)

Restriction of Emission of Odors

No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than 15 minutes apart within the period of 1 hour.

This requirement is not federally enforceable.

10 CSR 10-5.160, (Not Applicable if not in St. Louis Metropolitan Area) Restriction of Emission of Odors

No person shall emit odorous matter as to cause an objectionable odor on or adjacent to:

- (a) Residential, recreational, institutional, retail sales, hotel or educational premises.
- (b) Industrial premises when air containing odorous matter is diluted with 20 or more volumes of odor-free air; or
- (c) Premises other than those in paragraphs (1)A.1. and (2) of the rule when air containing odorous matter is diluted with four or more volumes of odor-free air.

The previously mentioned requirement shall apply only to objectionable odors. An odor will be deemed objectionable when 30 percent or more of a sample of the people exposed to it believe it to be objectionable in usual places of occupancy; the sample size to be at least 20 people or 75 percent of those exposed if fewer than 20 people are exposed.

This requirement is not federally enforceable.

10 CSR 10-6.280, Compliance Monitoring Usage

- (a) The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:
 - (1) Monitoring methods outlined in 40 CFR Part 64.
 - (2) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit.
 - (3) Any other monitoring methods approved by the director.
- (b) Any credible evidence may be used for the purpose of establishing whether a permittee has violated or is in violation of any such plan or other applicable requirement. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred by a permittee:
 - (1) Monitoring methods outlined in 40 CFR Part 64.
 - (2) A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit.
 - (3) Compliance test methods specified in the rule cited as the authority for the emission limitations,
- (c) The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
 - (1) Applicable monitoring or testing methods, cited in:
 - 10 CSR 10-6.030, "Sampling Methods for Air Pollution Sources".;
 - 10 CSR 10-6.040, "Reference Methods".
 - 10 CSR 10-6.070, "New Source Performance Standards".
 - 10 CSR 10-6,080, "Emission Standards for Hazardous Air Pollutants".
 - (2) Other testing, monitoring, or information gathering methods, if approved by the director, that produce information comparable to that produced by any method listed above.

FORM OP-D06 - CORE PERMIT REQUIREMENTS - SECTION D D06,00 - CORE PERMIT REQUIREMENTS (CONTINUED) (THIS IS A REQUIRED FORM FOR ALL PERMIT APPLICATIONS) PLANT NO. 143 8000 Magnitude 7 Metals, LLC 2019

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the code of federal regulations and code of state regulations for the full text of the applicable requirements.

10 CSR 10-5.040, (Delete if not in St. Louis Metropolitan Area) Use of Fuel in Hand-Fired Equipment Prohibited

It shall be unlawful to operate any hand-fired fuel-burning equipment in the St. Louis, Missouri metropolitan area. This regulation shall apply to all fuel-burning equipment including, but not limited to, furnaces, heating and cooking stoves and hot water furnaces. It shall not apply to wood-burning fireplaces and wood-burning stoves in dwellings, nor to fires used for recreational purpose, nor to fires used solely for the preparation of food by barbecuing. Hand-fired fuel-burning equipment is any stove, furnace, or other fuelburning device in which fuel is manually introduced directly into the combustion chamber.

Yes	No	Regulation	(Please	check the	appropriate	response	regarding	applicability)
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10 CSR 10-2.100 (Kansas City Metropolitan Area)

10 CSR 10-3.030 (Outstate Area)

10 CSR 10-4.090 (Greene County)

10 CSR 10-5.070 (St. Louis Metropolitan Area)

Open Burning Restrictions

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- (a) The permittee shall not conduct, cause, permit or allow a salvage operation, the disposal of trade wastes or burning of refuse by open burning.
- (b) Exception Open burning of trade waste or vegetation may be permitted only when it can be shown that open burning is the only feasible method of disposal or an emergency exists which requires open burning.
- Any person intending to engage in open burning shall file a request to do so with the director. The request shall include the following:
 - (1) The name, address and telephone number of the person submitting the application; The type of business or activity involved; A description of the proposed equipment and operating practices, the type, quantity and composition of trade wastes and expected composition and amount of air contaminants to be released to the atmosphere where known.
 - (2) The schedule of burning operations.
 - (3) The exact location where open burning will be used to dispose of the trade wastes.;
 - (4) Reasons why no method other than open burning is feasible.
 - (5) Evidence that the proposed open burning has been approved by the fire control authority which has jurisdiction.
- Upon approval of the open burning permit application by the director, the person may proceed with the operation under the terms of the open burning permit. Be aware that such approval shall not exempt the installation from the provisions of any other law, ordinance or regulation.
- The permittee shall maintain files with letters from the director approving the open burning operation and previous DNR inspection reports.

St. Louis City Ordinance 64749, Sec 17, (Not Applicable if not in City Limits of St. Louis City) Open Burning Restrictions

- (a) No person shall cause, suffer, allow or permit the open burning of refuse.
- No person shall conduct, cause or permit the conduct of a salvage operation by open burning.
- No person shall conduct, cause or permit the disposal of trade waste by open burning. (c)
- (d) No person shall cause or permit the open burning of leaves, trees or the byproducts therefrom, grass, or other vegetation.
- It shall be prima-facie evidence that the person who owns or controls property on which open burning occurs, has caused or permitted said open burning.

10 CSR 10-5,240, (Not Applicable if not in St. Louis Metropolitan Area) Additional Air Quality Control Measures May be Required When Sources Are Clustered in a Small Land Area

The Air Conservation Commission may prescribe more restrictive air quality control requirements that are more restrictive and more extensive than provided in regulations of general application for:

- (a) Areas in which there are one or more existing sources and/or proposed new sources of particulate matter in any circular area with a diameter of two miles (including sources outside metropolitan area) from which the sum of particulate emissions allowed from these sources by regulations of general application are or would be greater than 2000 tons per year or 500 pounds per hour.
- (b) Areas in which there are one or more existing sources and/or proposed new sources of sulfur dioxide in any circular area with a diameter of two miles from which the sum of sulfur dioxide emissions from these sources allowed by regulations of general application are or would be greater than 1000 tons for any consecutive three months or 1000 pounds per hour."

FORM OP-D06 - CORE PERMIT REQUIREMENTS - SECTION D						
D06.00 - CORE PERMIT REQUIREMENTS (CONTINUED) (T	HIS IS A REQUIRED FO	ORM FOR ALL PERMIT	APPLICATIONS)			
INSTALLATION NAME	FIPS	PLANT NO.	YEAR SUBMITTED			
Magnitude 7 Metals, LLC	143	0008	2019			

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the code of federal regulations and code of state regulations for the full text of the applicable requirements.

Title VI - 40 CFR Part 82, Protection of Stratospheric Ozone

- (a) The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - (1) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.
 - (2) The placement of the required warning statement must comply with the requirements pursuant to §82.108.
 - (3) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.
 - (4) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
- (b) The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR part 82, Subpart F, except as provided for motor vehicle air conditioners, or MVACs, in Subpart B:
 - (1) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
 - (2) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
 - (3) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.
 - (4) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
 - (5) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
 - (6) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.
- (c) If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
- (d) If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner, the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.

The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. Federal Only - 40 CFR part 82

FORM OP-E01 - COMPLIANCE PLAN/STATUS - SECTION E01.00 - COMPLIANCE PLAN/STATUS	E		
INSTALLATION NAME	FIPS	PLANT NO.	YEAR SUBMITTED
Magnitude 7 Metals, LLC	143	0008	2019
Completion of this form of the operating permit forms package application. 1. COMPLIANCE STATUS WITH ALL APPLICABLE REQUIREMENT. WILL YOUR INSTALLATION BE IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENT REQUIREMENTS FOR THE DURATION OF THE PERMIT?	IREMENTS EFFECTIVI	E AT THE TIME OF TH	E ISSUANCE OF
YES 🛮 NO 🗌 (IF NO, COMPLETE A COMPLIANCE PLA	AN AS DESCRIBED IN	THE INSTRUCTIONS C	N FORM OP-F01.00)
2. COMPLIANCE STATUS WITH ALL APPLICABLE REQUIREMENT			TERM,
YES ☑ NO ☐ (IF NO, COMPLETE A COMPLIANCE PLA			N FORM OP-F01.00)
3, COMPLIANCE STATUS WITH ENHANCED MONITORING	AND COMPLIANCE CI	ERTIFICATION.	
IS THE INSTALLATION IDENTIFIED IN THIS APPLICATION IN COMPLIANCE WITH ALL AF	PLICABLE ENHANCED MONITOR	ING AND COMPLIANCE CERTIFIC	CATION REQUIREMENTS?
YES ☑ NO ☐ (IF NO, COMPLETE A COMPLIANCE PLA	AN AS DESCRIBED IN	THE INSTRUCTIONS O	ON FORM OP-F01.00)
4. SCHEDULE OF SUBMISSION OF COMPLIANCE CERTIFIED FREQUENCY OF SUBMITTALS	CATION DURING THE	PERMIT TERM. BEGINNING DATE	
Annual Compliance Certifications		1	Ongoing
5. CERTIFICATION STATEMENT FOR PART 70 MINOR PER	MIT MODIFICATIONS.		
I hereby certify that this request for a permit modification meets permit modifications, and request that the minor permit modifications)5.b.(i) for minor
SIGNATURE OF RESPONSIBLE OFFI N/A: this is not an applicatio	n for a minor permit	modification.	
6. CERTIFICATION OF COMPLIANCE WITH ALL APPLICAE	LE REQUIREMENTS.		
Except for requirements identified in the above statement for w information and belief formed after reasonable inquiry, the air call applicable requirements. SIGNATURE OF RESPONSIBLE OFFICIAL OF COMPANY		tified in this application i	
SIGNATURE OF RESPONSIBLE OFFICIAL OF COMPANY S. J.		1/9/10	7
TYPE OR PRINT NAME OF RESPONSIBLE OFFICIAL Steve Rusche	COO	F RESPONSIBLE OFFICIAL	

FORM OP-F01 - GENERAL COMMENTS - SECTION F						
F01.00 - GENERAL COMMENTS						
INSTALLATION NAME	FIPS	PLANT NO.	YEAR SUBMITTED			
Magnitude 7 Metals, LLC	143	0008	2019			

1. GENERAL INFORMATION

Reference Form OP-D01 - Existing Plant-wide conditions

Emission Unit which was in application for initial Title V permits but is not listed in current Operating permits:

EP-24 from the original application – Bucket Elevator with Motor - Fresh Ore Material Handling: This emission point was in the original application but was not incorporated into the issued Operating permits. A copy of the original OP-D03 form has been included with this renewal application. Magnitude 7 Metals requests that EU1300 be assigned to this equipment. It will be subject to the process weight rule, opacity limitations and CAM requirements.

Emission Units to be removed from renewal permit due to removal from service:

EP-75 Anode Paste Mixer Exhaust (EU3240, 3250, 3260, 3270) has been taken out of service at the facility. The anode paste mixer process referenced to EP-75 was replaced by EP-100 Anode Paste Process, EP-101 Fraction Handling, and EP-102 Proportioning System. The appropriate D03.00 Forms are included in this permit application for the emission units associated with these emission points. The applicable requirements from 40 CFR Part 63, Subpart LL from Operating Permit 2001062 have been applied to the new affected units under Subpart LL (EU5120 (Turntable Vibrating Compactor) and EU5130 (Kneader)). Applicable units were determined using 40 CFR Part 63, Subpart LL which defines paste production plant as "the processes whereby calcinated petroleum coke, coal tar pitch (hard or liquid), and/or other materials are mixed, transferred, and formed . . . into green anodes for a prebake process. This definition includes all operations from initial mixing to final forming within the paste plant, including conveyors and units handling heated liquid pitch.

Emission Units to be removed from renewal permit due to correction in unit classification:

EU0340, EU0420, EU0470, and EU0940: These units refer to ductwork and distribution boxes with the Fresh Ore Material Handling process. These are sealed units that are not emission points, and therefore do not have any applicable requirements. However, in the previous Title V permit OP2001033 these units were listed as Emission Units, and made subject to the process weight rule and opacity requirements. Magnitude 7 Metals requests that these units be removed from the requirements of the renewal Title V as they are not emission units.

EU0930: This unit refers to an Alumina Storage tank that is in a closed system. The airslides associated with EP-7 and EP-8 that transfer material into this tank are controlled by their respective dust collectors. This tank itself is not a source of emissions. The current Title V permit OP2001033 lists this tank as an Emission Unit, and made it subject to the process weight rule and opacity requirements. Magnitude 7 Metals requests that this unit be removed from the requirements of the renewal Title V as it is not an emission unit.

EU1410 and **EU1490**: These units refer to ductwork and distribution boxes with the Reacted Ore Material Handling process. These are sealed units that are not emission points, and therefore do not have any applicable requirements. However, in the previous Title V permit OP2001033 these units were listed as Emission Units, and made subject to the process weight rule and opacity requirements. Magnitude 7 Metals requests that these units be removed from the requirements of the renewal Title V as they are not emission points.

EU2570, EU2580, EU2590, EU3020, EU3030, and EU3040: These units refer to rotary and trickle air locks that are associated with specific dust collectors. They are part of the dust collector, used to recover product from a dust collector and recycle via a conveyor to the process, and are not emission points on their own. However, in the previous Title V permit OP2001033 these units were listed as Emission Units, and made subject to the process weight rule and opacity requirements. Magnitude 7 Metals requests that these units be removed from the requirements of the renewal Title V as they are not emission points.

DUPLICATE THIS FORM AS NEEDED

FORM OP-F01 - GENERAL COMMENTS - SECTION	NF		
F01.00 - GENERAL COMMENTS			
INSTALLATION NAME	FIPS	PLANT NO.	YEAR SUBMITTED
Magnitude 7 Metals	143	0008	2018
A OFFICAL INFORMATION		<u> </u>	

. GENERAL INFORMATION

Reference Form OP-D01 - Existing Plant-wide conditions

Clarifications on emission units listed in existing Part 70 Operating Permits:

EU1070- Fresh Ore Material Handling – this emission unit description should be listed as an air gravity conveyor, not as a lift tower. All other information for this unit as submitted in the original application is correct.

EP-71 Anode Paste Production – The number and type of equipment associated with EP-71 has been updated in the renewal application as follows to reflect corrections to the existing permit:

- -Removed from service from EP-71: EU2360 (Ball Mill); EU2370 (Crusher); EU2380 (Vibrating Screen); EU2420, 2430, and 2440 (Bucket Elevators); and EU2540 and EU2550 (Rotary Vane Feeders).
- -Reclassified from EP-71 to EP-72: EU2390 (Bucket Elevator); EU2480 (Screw Conveyor); and EU2490, 2500, 2510, 2520, and 2530 (Rotary Vane Feeders).
- -New emission units EU5010, 5020, and 5030 (Screw Conveyors); EU5040 and 5050 (Vibratory Feeders); and EU5060 (Magnetic Separator) were added under construction permit 0298-001 in March 2003. D03.00 Forms have been completed for this equipment.

EP-72 Anode Paste Production – The number and type of equipment associated with EP-72 has been updated in the renewal application as follows to reflect corrections to the existing permit:

- -Removed from service from EP-72: EU2600 and 2610 (Roll Crushers); EU2620 (Vibrating Screen); EU2700, 2710, 2720, 2730, 2740, 2750, 2760, 2770, 2780, 2790, 2800, 2810, 2820, 2830, 2840, 2850, 2860, and 2870 (Vibrating Feeders); EU2890, 2900, 2910, 2920, and 2930 (Screw Feeders), EU2950 and 2960 (Plate Magnetic Separators), EU2970 (Screw Conveyor), and EU3050 (Air Clarifier).
- -Reclassified from EP-72 to EP-71: EU2630, 2640, 2650, 2660, 2670, 2680, and 2690 (Vibratory Feeders); and EU2980 and 3000 (Screw Conveyors).
- -New emission unit EU5070 (Tramp Iron Separator) was added under Construction permit 0298-001 in March 2003. A D03.00 Form has been completed for this equipment.

EP-74 Anode Paste Production - EU3200 (Screw Conveyor) has been reclassified from EP-74 to EP-72 as a correction to the existing permit.

The existing Title V permit 2001032 subjected the following direct-fired furnaces to the process weight rule: EU3755 (old EU3760), EU4790, 4800, EU4810. While PM emissions are generated by the combustion process in these units, there are no PM emissions from the process materials in these direct-fired units. The process weight rule applies to material handling units. For these direct-fired units, the PM emissions are not related to material handling. Therefore, Magnitude 7 Metals requests that emission units EU3755, 4790, 4800 and 4810 be removed from applicability of 10-6.400. Attachment 3 – Summary of Applicable Requirements reflects this request.

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FORM OP-F01 - GENERAL COMMENTS - SECTION F			
F01.00 - GENERAL COMMENTS		SPACE COSTINUES OF CASE	
INSTALLATION NAME	FIPS	PLANT NO.	YEAR SUBMITTED
Magnitude 7 Metals	143	0008	2018

1. GENERAL INFORMATION

Exceptions to incorporations by reference of operating permits.

- 1.) 10-3.050 Restriction of Emission of Particulate Matter from Industrial Process: this rule was rescinded March 30, 2001 and replaced with 10-6.400. The particulate matter emission limited were recalculated based on the updated MHDRs in this permit application, see Attachment 1 - PWR.
- 2.) 10-3.060 Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating: This rule was rescinded October 30, 2011 and replaced with 10-6.405. The Particulate Matter emission limitations are incorporated by reference.
- 3.) 10-3.080 Restriction of Emission of Visible Air Contaminates: This rules was rescinded May 30, 2000 and replaced with 10-6.220. The opacity limitations are incorporated by reference from the current Part 70 permits, except as noted in form OP-F01.
- 4.) Entire Document Each mention of "Noranda" or "Noranda, Inc." should be corrected to instead read "Magnitude 7 Metals" or "Magnitude 7 Metals, LLC." This will reflect the transfer of the New Madrid county facility to a new owner and operator.
- 5.) 10.6.075 Emission Standards for Hazardous Air Pollutants for Primary Aluminum Plants: this condition should be updated to reflect changes to 40 CFR Part 63 Subpart LL; as detailed as follows:

<u>Potlines:</u> 40 CFR 63.843(a)(2) and 40 CFR 63.843(a)(3), addition of emission standards for polycyclic organic matter (POM) and particulate matter (PM), respectively, with specific regard to Class 1 Center-work Prebake Potlines. 40 CFR 63.843(d), addition of emission standards for carbonyl sulfide (COS).

Pitch Tanks: 40 CFR 63.843(d), additional requirements for inlet emission control systems and limit for POM emissions.

Anode Bake furnaces: 40 CFR 63.843(c)(3) and 40 CFR 63.843(c)(4), addition of emission standards for PM and Mercury, respectively. In addition, the anode paste production permitted in OP2001062 has been replaced with EP-100 (EU-5100 through 5160), EP-101 (EU-5200 through EU-5270), and EP-102 (EU-3500 through 5330). OP-D03 Emission Unit Information forms have been included for the emission units associated with these EPs.

6.) 10.6.075 — Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Plants: this rule should be updated to reflect changes to 40 CFR Part 63 Subpart RRR; as detailed as follows:

Furnaces: 40 CFR 63.1505(i)(4), addition of emission standards for Hydrogen Fluoride with specific regard to Group 1 furnaces.

- 7.) EU1690: As part of amendments to permits 0679-008 through 011 for the New Madrid facility, the exhaust from Butt Cooling Bay (EU1690) was required to be vented to EP-62 and EP-63 for two hours before being routed to a standalone baghouse (EP-47). An operation change has been made to take EP-47 off-line and vent the exhaust through EP-62 and EP-63 for the entire cooling period. These two EPs are controlled by a conventional baghouse See attachment 7 for 2006 letter addressed to MDNR.
- 8.) Reference in issued Title V permits to 10-6.080 for applicable NESHAPs (40 CFR Part 63, Subpart LL and RRR) should refer to 10-6.075 as this is the MDNR regulation which incorporates the MACT Standards by reference.
- 9.) EU-3760 is listed as two different units in OP2001032 and in OP2001062. The renewal application has been clarified to reflect that EU-3760 in OP2001032, which exhausts into EP-97, is now changed to EU-3755 (Carbon Rodding Aluminum Spray Furnace) and that EU-3760 (Roll Conveyer) exhausts to EP-98. See Attachment 4.
- 10.) Magnitude 7 Metals requests that the opacity monitoring requirements continue at the currently established frequency, and not revert to weekly monitoring as require upon initial Title V issuance.

Exceptions to incorporations by reference of construction permits.

1.) The VOC and PM10 limits and associated record keeping established in 0298-001 includes the Dross Cooling Systems permitted under construction permits 1288-003A and 1282-007A. This equipment has been removed from service, Magnitude 7 Metals requests that the Dross Cooling Systems be removed from the monthly and consecutive 12 month record keeping requirements of 0298-001. The remaining equipment covered by these limits will continue monthly and consecutive 12 month record keeping requirements as stated in the permit.

DUPLICATE THIS FORM AS NEEDED

Boiler NESHAP Applicability Overview

40 CFR PART 63, SUBPART DDDDD APPLICABILITY DETERMINATION

This section presents the basis for the applicability determination for 40 CFR 63, Subpart DDDDD, *Industrial, Commercial and Institutional Boilers and Process Heaters.* 40 CFR 63, Subpart DDDDD was promulgated on September 13, 2004. The NESHAP applies to boilers and process heaters located at a major source of hazardous air pollutants (HAPs). The affected sources include new and existing solid and liquid fuel-fired boilers and process heaters. Direct-fired combustion units are not affected units for this subpart.

Small boilers and process heaters are defined as any firetube boiler (regardless of size) and any other boiler or process heater ≤ 10 MMBtu/hr. Large boiler and heaters are defined as any boiler or process heater > 10MMBtu/hr. Existing small units (all fuel types) and new small units (gas fuels) have no emission limits or other applicable requirements (monitoring, record keeping, or notification). Magnitude 7 Metals operates existing small natural gas-fired boilers and process heaters. Existing small natural gas fired boilers at Magnitude 7 Metals' facility include EU3730 (EP-94), EU3740 (EP-95), EU3750 (EP-96), EU3755 (EP-97, labeled as EU3760 in OP2001032), EU4900 (EP-BI), EU4910 (EP-BJ) and EU4920 (EP-BK). (Please note that EP-97 is given a new Emission Unit number in the renewal application since, in the existing Part 70 permits, there are two emission units EU-3760; one in OP2001032 and one in OP2001062). These existing small natural-gas fired units are not subject to any requirements of Subpart DDDDD.

Magnitude 7 Metals operates three existing large, natural gas direct-fired furnaces including EU4790 (EP-AJ), EU4800 (EP-AK), and EU4810 (EP-AL). Since these units are direct-fired, these are not affected units for this subpart.

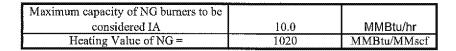
Insignificant Activities Calculations

Space Heater Natural Gas Combustion Potential Criteria Pollutant Emissions

Maximum capacity of NG burners to	000000000000000000000000000000000000000	000000000000000000000000000000000000000
be considered IA	10.0	MMBtu/hr
Heating Value of NG	1020	MMBtu/MMscf

	Emission Factor	PTE	
Pollutant	(lb/MMscf)	(tons/year)	Emission Factor Source
CO	84	3.607	AP-42 Section 1.4 (7/98) Table 1.41
NOx	100	4.294	AP-42 Section 1.4 (7/98) Table 1.4-2
PM Total	7.6	0.326	AP-42 Section 1.4 (7/98) Table 1.4-2
SO2	0.6	0.026	AP-42 Section 1.4 (7/98) Table 1.4-2
VOC	5.5	0.236	AP-42 Section 1.4 (7/98) Table 1.4-2
Lead	. 0.0005	0.000	AP-42 Section 1.4 (7/98) Table 1.4-2

Magnitude 7 Metals, LLC Title V Operating Permit Renewal Application



			000000000000000000000000000000000000000	
	Emission Factor	Potential from	Total PTE	
HAP	(lb/MMscf)	NG	(tpy)	Emission Factor Source
2-Methylchloroanthrene	1.80E-06	7.73E-08	7.73E-08	AP-42 Section 1.4
2-Methylnaphthalene	2.40E-05	1.03E-06	1.03E-06	AP-42 Section 1.4
7,12-Dimethylbenz(a)anthracene (POI	1.60E-05	6.87E-07	6.87E-07	AP-42 Section 1.4
Acenaphthene (POM)	1.80E-06	7.73E-08	7.73E-08	AP-42 Section 1.4
Acenaphthylene (POM)	1.80E-06	7.73E-08	8.07E-06	AP-42 Section 1.4
Anthracene (POM)	2.40E-06	1.03E-07	1,03E-07	AP-42 Section 1.4
Artenacene (i Ow)	2.00E-04	8.59E-06	4.21E-02	AP-42 Section 1.4
Benz(a)anthracene (POM)	1.80E-06	7.73E-08	1,28E-04	AP-42 Section 1.4
Benzene	2.10E-03	9.02E-05	6.83E-03	AP-42 Section 1.4
Benzo(a)pyrene (POM)	1.20E-06	5.02E-03 5.15E-08	5,15E-08	AP-42 Section 1.4
Benzo(b)fluoranthene (POM)	1.80E-06	7.73E-08	4.72E-05	AP-42 Section 1.4 AP-42 Section 1.4
Benzo(g,h,i)perylene (POM)	1.20E-06	5.15E-08	7.21E-05	AP-42 Section 1.4
Benzo(k)fluoranthene (POM)	1.80E-06	7.73E-08	7.73E-08	
<u> </u>		•		AP-42 Section 1.4
Beryllium	1.20E-05	5.15E-07	8.87E-04	AP-42 Section 1.4
Cadmium	1.10E-03	4.72E-05	1.27E-02	AP-42 Section 1.4
Chromium (DOM)	1.40E-03	6.01E-05	2.70E-02	AP-42 Section 1.4
Chrysene (POM)	1.80E-06	7.73E-08	7.59E-05	AP-42 Section 1.4
Cobalt	8.40E-05	3.61E-06	1.92E-01	AP-42 Section 1.4
Copper	8.50E-04	3.65E-05	5.62E-02	AP-42 Section 1.4
Dibenzo(a,h)anthracene (POM)	1.20E-06	5.15E-08	5,33E-05	AP-42 Section 1.4
Dichlorobenzene	1.20E-03	5.15E-05	5.15E-05	AP-42 Section 1.4
Fluoranthene (POM)	3.00E-06	1.29E-07	1.54E-04	AP-42 Section 1.4
Fluorene (POM)	2.80E-06	1.20E-07	1.43E-04	AP-42 Section 1.4
Formaldehyde	7.50E - 02	3.22E-03	1.05E+00	AP-42 Section 1.4
Hexane	1.80E+00	7.73E-02	7.73E-02	AP-42 Section 1.4
Indeno(1,2,3-cd)pyrene (POM)	1.80E-06	7.73E-08	6.83E-05	AP-42 Section 1.4
Lead	5.00E-04	2.15E-05	4.82E-02	AP-42 Section 1.4
Manganese	3.80E-04	1.63E-05	9.57E-02	AP-42 Section 1.4
Mercury	2.60E-04	1.12E-05	3.61E-03	AP-42 Section 1.4
Molybdenum	1.10E-03	4.72E-05	2.51E-02	AP-42 Section 1.4
Naphthalene	6.10E-04	2.62E-05	3.61E-02	AP-42 Section 1.4
Nickel	2.10E-03	9.02E-05	2.70E+00	AP-42 Section 1.4
Phenanathrene	1.70E-05	7.30E-07	3.35E-04	AP-42 Section 1.4
Pyrene (POM)	5.00E-06	2.15E-07	1.36E-04	AP-42 Section 1.4
Selenium	2.40E-05	1.03E-06	2.18E-02	AP-42 Section 1.4
Toluene	3.40E-03	1.46E-04	1.98E-01	AP-42 Section 1.4
Vanadium	2.30E-03	9.88E-05	1.01E+00	AP-42 Section 1.4
Zinc	2.90E-03	1.25E-04	9.29E-01	AP-42 Section 1.4

Magnitude 7 Metals
Title V Operating Permit Renewal Application

Summary of Applicable Requirements

							PM - PWR	PM-IDH	Opacity					10-6,075 40 0	FR Part 63 NESHAPs				Construction	Permit 0298-001	PSD Per	rmit 102004-
mission oint ID	Emission Point Description	Emission Unit ID	Emission Unit Description	Control Davice ID	Control Device Code	Current Operating Permit	10-6.400 PM Limit (lb/hr)	10-6,405 PM Limit (lb/MMBtu)	10-6,220 pr 40 CFR Part 60, Subpart S - Opacity Limit	Subpert RRR - PM Limit (lb/loh feed)	HCl Limit	Subpart RRR - HF Limit (fb/ton feed)	Subpart RRR - D/F Limit (gr/ton feed)	Subpert LL - TF Limit (Ib/Ion Ai or green anode)	Subpart LL - POM Limit (lb/ton Al or green anode)	Subpart Li PM Limit (lb/ton Al or graen anode)	Subpart LL - Hg Lámi (µg/DSCM)	it Subpart LL - POM Limi (Ib/ton green anode)	PM10 Limit (tpy)	VOC Limil (tpy)	Atlachment E PM10 Limit (lb/hr)	(tpy)
3-01 3-02	River Unloading River Unloading	EU0010 EU0020	Vacuum Unioader Vacuum Unioader	CD-1 CD-2		OP2001082 OP2001082	58.51 58.51		40% 40%					· · · · · · · · · · · · · · · · · · ·							0,3843 0.3643	
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		EU0040 EU0050	Airailde Airailde	-	H	OP2001032 OP2001032	58.51 58,51		40% 40%	 	-		 									5.700
3-03	River Unloading	EU0060	Airsiide	CD-3	018	OP2001032	58.51		40%	T											0.3433	
		EU0070 EU0080	Airailde Airslide	-	-	GP2001032 GP2001032	58.51 58,51		40% 40%	 	+		ļ-				 					200 and 100 an
		EU0090	Aitsilde			OP2001032 OP2001032	58.51		40%													
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		EU0120	Vibrating Feeder	-		OP2001032	58,51		40%			1										
2-04	Relicar Unloading	EU0130	Vibrating Feeder	CD-4	018	OP2001032	58.51		40%	ļ							ļ		-		2.0571	57500
		EU0140 EU0150	Screw Conveyor Car Shaker			OP2001082 OP2001082	58,51 58,51		40%	†		1					·					
		EU0180	Bucket Elevetor	_		OP2001033	58.51 68,51		40%										_	ļ	1	
		EU0170 EU0180	Bucket Elevator Airslide			OP2001033 OP2001033	58,51		40% 40%	 	+	 	-						1		1	200000000000000000000000000000000000000
		EU0190	Alrs de			OP2001033	58.51 88.51		40%								<u> </u>				1	7825
6	Fresh Ore Material Hendling	EU0200 EU0210	Airslide Airslide	CD-5	018	OP2001083 OP2001089	58,51 58,51		40% 40%		+	+								<u> </u>	0.5143	274 (Carlotte
		EU0220	Alrslide			OP2001033	58,51 58,51		40%]	86820
		EU0230 EU0240	Airslide Airslide	-		OP2001033 OP2001033	58,51 58.51		40% 40%			 							 	 	1	
		EU0250	A rs ide		 	OP2001033	58.51		40%										1		0.0053	2000
	Fresh Ore Material Handling	EU0280 EU0270	Airstide Belt Conveyor	CD-6	018	OP2001038 OP2001038	58,51 58,51		20% 20%	 	· · · · · · · · · · · · · · · · · · ·	+				 		-	1		0.2057	
		EU0280	Screening Machine	1		OP2001033	58.51	· ·	20%	<u> </u>		1									1	
		EU0290 EU0300	Air Gravity Conveyor Air Gravity Conveyor	-	F	OP2001038 OP2001033	58,51 58.51		20% 20%	 		+	 			 		+	 	 	†	52.5
		EU0310	Air Gravity Conveyor Air Gravity Conveyor	1	1	OP2001033	58.51		20%												1	
		EU0320 EU0330	Air Gravity Conveyor	4	F	OP2001033 OP2001033	58.61 68.61		20%	 	+	+	-					+	+		1	
7	Fresh Ore Material Handling	EU0350	Air Gravity Conveyor Fan	CD-7	018	OP2001033 OP2001033	58.51		20%	· · · · · · · · · · · · · · · · · · ·	1		<u> </u>								0.4936	
	-	EU0360	Fan	4		OP2001033 OP2001033	58.51 58.51		20% 20%	ļ			ļ							 		
		EU0370 EU0380	Lift Tower	1	1	OP2001033 OP2001033	58.51		20%	<u> </u>											1 .	
		EU0390	Blower with filters and Motor	4		OP2001038	68.61		20%	-								-			4	6004
		EU0400 EU0410	Blower with filters and Motor Blower with filters and Motor	-	1 1	OP2001033 OP2001033	58,51 58,51		20%													
_		EU0430	Airsilde		ļ	OP2001033	58.61		20%										_		ļ	
		EU0440 EU0450	Lift Tower	-	1	OP2801033 OP2001033	58,51 58,51		20% 20%	 		 	ļ								1	
		EU0460 .	Airs de			OP2001033	58.51 58.51		20%												1	2000
- 1		EU0480 EU0490	Blower with filters and Motor Blower with filters and Motor	-	1 +	OP2001088 OP2001088	58,51 58,61		20% 20%	 	-								1	<u> </u>	1	50390
-		EU0500	Blower with filters and Motor	_		OP2001033 OP2001033	58.51 58,51		20%]	
.	Fresh Ore Material Handling	EU0510 EU0520	Fan Fan	CD-8	018	OP2001033 OP2001033	58,51 58,51		20% 20%			-	 						 	-	0.8057	
-08	t rest Ore Meteries Trailiding	EU0530	Air Gravity Conveyor		1 "	OP2001033	58.51		20%												1	
		EU0540	Air Gravity Conveyor	7		OP2001033 OP2001033	58,51 58,51		20%							ļ	-		-	l	-	100000000000000000000000000000000000000
		EU0550 EU0560	Air Gravity Conveyor Air Gravity Conveyor	-	1 1	OP2001033	58.51		20% 20%]	
		EU0570	Air Gravity Conveyor	_	[OP2001033	58,51 58,51		20%			-	-				ļ				-	1000544
		EU0580 EU0590	Screening Machine Belt Conveyor	-	1	OP2001033 GP2001033	58.51		20% 20%	1											T	100
		EU0600	Airatide Airstide	_		OP2001088 OP2001088	58,51 58,51		40%											<u> </u>	4	
18	Reacted Ore Material Handling	EU0610 EU0620	Aliside	CD-9	018	OP2001083	58.51		40% 40%	1											0.2571	
		EU0630 EU0640	Airelide			OP2001033 OP2001033	58,51 58,51		40% 40%				-							-	-	
0	Reacted Ore Material Handling	EU0650	Belt Conveyor Belt Conveyor	CD-10	018	OP2001033	58,51 58.51		40%												0,3857	36636
	•	EU0660	Belt Conveyor	_		OP2001033	58.51		20%	ļ					1						-	
		EU0670	Flow Control Gate Flow Control Gate	1		OP2001033 OP2001033	58,51 58,51		20% 20%	 		1	1								1	
		EU0690	Flow Control Gate	7	į į	OP2001033	58.51		20%											ļ	-	70.00
		EU0700 EU0710	Airside Airsilde	-	1	OP2001033 OP2001033	58,51 58,51		20% 20%		+	+	 	 							1	
11	Fresh Ore Material Handling	EU0720	Airailde	CD-11	018	OP2001033	58.51		20%								-		+	-	0.2207	
		EU0780 EU0740	Airslide Airslide	+		OP2001033 OP2001033	58.51 58.51		20% 20%	 	1	1				<u> </u>					1	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		EU0760	Airslide			OP2001033 OP2001033	58.51		20% 20%	ļ			_					+	+		-	
		EU0760 EU0770	Airslide Airslide			OP2001033	88,61 58.51		20%						!						1	
		EU0780	Airs ide		040	OP2001033	58.51		20% 20%	J			ļ				 	+	+		 	#100m
.	Reacted Ore Material Handling	EU0790 EU0800	Belt Conveyor Alralide	GD-12	018 018 018	OP2001033 OP2001033	58,51 58,51		20%			1	<u> </u>						T		0.5314	
	-	EU0810	Airslide		018	OP2001033	58.51 58.51		20%	I		-		ļ			+		+	 	1	-
-		EU0820 EU0830	Side Discharge Gate Belt Conveyor	┥.		OP2001033 OP2001033	68,61 68,51		20% 20%	<u> </u>									1			
.	Barriedo Halaner Barriedo	E10840	Belt Conveyor]		OP2001033	58.51		20%	Ţ							4		-		0,8113	
3	Reacted Ore Material Handling	EU0850 EU0860	Airslide Abslide	GD-13	018	OP2001033 OP2001033	58.51 58.51		20% 20%	 	+	+			<u> </u>	 			1		1 0,0110	3335
		EU0870	Altstide			OP2001033	58.51		20% 20%								1				4	2000
+		EU0880 EU0880	Bucket Elevator Belt Conveyor	-	+	OP2001038 OP2001033	58.51 51,28 51,28		20%				1		<u> </u>	 					1	
	Fresh Ore Material Handling	E10800	Alrsiide	CD-14	018	OP2001033	51,28		20% 20%	Ţ			 				<u> </u>				0.9129	575.1662°A
+		EU0910 EU0920	Ajrstide Blower with filters and Motor	+	+	OP2001033 OP2001033	51.28 51.28	 	20%	+	+		+	1		<u> </u>					1	1/250
		EU0950	Air Gravity Conveyor	7		OP2001033	51,28		20%				ļ						T		4	300
-		EU0960	Air Gravity Conveyor Air Gravity Conveyor	\dashv	}	OP2001033 OP2001033	51,28 51,28		20% 20%	1		+		†			 	+	+		1	<u> </u>
		EU0970 EU0980 EU0880	Air Gravity Conveyor		1 1	OP2001033	51.28		20%	T		1									-	
	Fresh Ore Meterial Handling	EU0890 EU1000	Air Grayity Conveyor	CD-15	018	OP2001033 OP2001033	51.28 51.28		20% 20%	+	-	-				-	-	+	+		0.4071	575
	-	EU1010	Air Gravity Conveyor Air Gravity Conveyor	1	h	OP2001033	51.28		20%									1			1	
		EU1020 EU1030	Airsilde	4		OP2001033	51.28		20% 20%	 					1		-		+		-	2323
		EU1030	Airsiide Airsiide	Η		OP2001033 OP2001033	51.28 51,28		20%	 	-	-	+		 						1	5 05/0
\perp		EU1040 EU1050	Airsi de		1	OP2001033	51.28		20% 20%	1											0,1029	1000
7	Fresh Ore Material Handling Fresh Ore Material Handling	EU1060	Air Gravity Conveyor Air Gravity Conveyor	CD-16 CD-17		OP2001033 OP2001088	51.28 51.28	†	20%	1	-	+				+	 			1	0,1029	
3	Fresh Ore Material Handling	EU1070 EU1080	Air Gravity Conveyor	CD-17 CD-18	018 018	OP2001088 OP2001083	51.28		20%	ļ			 	 					4	-[0.1029	2,000
9	Fresh Ore Material Handling Fresh Ore Material Handling	EU1090 EU1100	Air Gravity Conveyor Air Gravity Conveyor	CD-19 CD-20		OP2001033 OP2001033	51.28 51,28	1	20%	1-		+	+		 	-	1			1	0.1029	
1	Fresh Ore Material Handling	EU1110 EU1120	Air Gravity Conveyor	CD-21	018	DP2001033	51,28		20%												0,4071	28565.76
_		F FI11120	Air Gravity Conveyor	1	1 7	OP2001033	51.28	1	20%				_L	1	L	1					i	5003288

Emission Point ID	Emission Point Description	Emlasion Unit ID	Emission Unit Description	Control Device ID	Control Device Code	Current Operating Permit	10-6,400 PM Limit (lb/hr)	10-6.405 PM Limit (tb/MMBu)	10-6,220 of 40 CFR Part 60, Subpart S - Opacity Limit	l Subpert RR S PM Limil (lb/lon fee	t HCI Limit	Subpart RRR - HF Limit (lb/lon feed)	Subpart RRR - D/F Llmit (gr/lon feed)	Subpart LL - TF Limit (lb/ton Al or green anode)	Subpart LL - POM Limit (lb/ton Al or green enode)	Subpart LL - PM Limit (lb/lon Al or green anode)	Subpart LL - Hg Limit (µg/DSCM)	Subpert LL - POM Lim (lb/ton gresn anode)	It PM10 Limit (tpy)	VOC Limit (tpy)	Attachment B PM10 Limit (lb/hr)	
		EU1130	Air Gravity Conveyor			OP2001033	51.28		20% 20%				<u> </u>					<u> </u>	 			
		EU1140 EU1150	Air Gravity Conveyor Air Gravity Conveyor			OP2001033 OP2001033	51,28 51,28		20%	 		<u> </u>										
P-22	Fresh Ore Material Handling	EU1160	Air Gravity Conveyor	CD-22	018	OP2001033	51.28		20%							-,-,-					0,3000	
		EU1170 EU1180	Air Gravity Conveyor Air Gravity Conveyor			OP2001033 OP2001033	51.28 51,28		20%	 		 					 	 	1			
		EU1190	Air Gravity Conveyor			OP2001033	51.28		20%													
		EU1200 EU1210	Screw Conyeyor Screw Conveyor			OP2001033 OP2001033	51,28 51,28		20% 20%	 	1	<u> </u>					 	 				
		EU1220	Air Gravity Conveyor	1		OP2001033	51.28	~~~	20%			ļ						ļ				
EP-23	Fresh Ore Material Handling	EU1230 EU1240	Air Gravity Conveyor Air Gravity Conveyor	CD-23	018	OP2001033 OP2001033	51,28 51,28		20%	 		 	 						1 1		0,3000	
		EU1250	Air Gravity Conveyor	1		OF2001033	51.28		20%										1			
1		EU1260 EU1270	Air Gravity Conveyor Air Gravity Conveyor	1		OP2001033 OP2001033	51.28 51.28		20% 20%	 			· · · · · · · ·				 	 	+			
		EU1280	Air Gravity Conveyor		ļ	OP2001033	51.28		20%													3000
P-24	Fresh Ore Material Handling	EU1300	Bucket Elevator	CD-24	018	in original application, but not in issued T5	51,28		40%										l		0.6000	
P-25	Fresh Ore Material Handling	EU1310	Air-Float Conveyor	CD-25		OP2001033	51.28		20%									T			0.3429	
P-26 P-27	Reacted Ore Material Handling Reacted Ore Material Handling	EU1320 EU1330	Airstide Air Gravity Conveyor	CD-26 CD-27	018 018	OP2001033 OP2001033	42.53 42,53		20% 20%	+							<u> </u>	 	+		0.3429 0.0686	5 22 2
P-28	Reacted Ore Material Handling	EU1340	Air Gravity Conveyor		018	QF2001033	42.53		20%			1								************	0,0686 0,0686	
P-29 P-30	Reacted Ore Material Handling Reacted Ore Material Handling	EU1350 EU1360	Air Gravity Convayor Air Gravity Conveyor	CD-30	018	OP2001033 OP2001033	42,58 42,58		20% 20%			+						<u> </u>			0.0686	800808
P-31	Reacted Ore Material Handling	EU1370 EU1380	Air Gravity Conveyor	CD-31	018	OF2001033	42.53		20%			Į									0.0686 0.0686	
P-82 P-33	Reacted Ore Material Handling Reacted Ore Material Handling	EU1390	Air Gravity Convayor Air Gravity Convayor	CD-32 CD-33	018	OP2001033 OP2001033	42.53 42,53		20%	1	-	1					-	 	 		0.0686	
P-34	Reacted Ore Material Handling	EU1400 EU1420	Air Gravity Conveyor	CD-34	018	OF2001033	42.53		20%	1			ļ								0.0686	
		EU1420 EU1430	Air Gravity Conveyor Air Gravity Conveyor	1		OP2001038 OP2001033	42.53 42.53		20%	+		 	 				 	-	-			
		EU1440	Air Gravity Conveyor	1		OP2001033	42.53		20%									1 400]			
P-35	Reacted Ore Material Handling	EU1450 EU1460	Air Gravity Conveyor Air Gravity Conveyor	CD-35	018	OP2001033 OP2001033	42.53 42.53	,	20%		-	1					 	+	-		0.1457	
		EU1470	Air Gravity Conveyor	1		OP2001033	42.53		20%	1		1	1]			
		EU1480 EU1500	Air Gravity Conveyor Air Gravity Conveyor	ļ	ļ	OP2001033 OP2001033	42.53 42.53		20%	 		 						-				
		EU1510	Air Gravity Conveyor	1		OP2001033	42.53		20%]			
EP-36	Reacted Ore Material Handling	EU1520 EU1530	Air Gravity Conveyor Air Gravity Conveyor	CD-36	018	OP2061033 OP2001033	42.53 42.53		20% 20%			·					 	+	-		0.3429	
		EU1540	Air Gravity Conveyor	1	"	OP2001033	42.53		20%				-						_			E 225-124 (SE
		EU1550 EU1560	Air Gravity Conveyor Air Gravity Conveyor	-		OP2001033 OP2001033	42,53 42,63		20% 20% 20%	 		+	1					-	-		ŀ	
P-37	Reacted Ore Material Handling	EU1570 EU1580	Air Gravity Conveyor	CD-37		OP2001033	42.53		20%			<u> </u>									0.0686	\$10E.25
P-38	Reacted Ore Material Handling Reacted Ore Material Handling	EU1580 EU1590	Air Gravity Conveyor Air Gravity Conveyor	CD-38 CD-39	018 018	OP2001033 OP2001033	42.53 42.53		20%				<u> </u>					-	-		0.0686 0.0686	10 5 10 5
P-39 P-40	Reacted Ore Material Handling	EU1600	Air Gravity Conveyor	CD-40	018	OP2001033	42,63		20% 20%									<u> </u>			0.0686	
P-41	Reacted Ore Material Handling	EU1610 EU1620	Air Gravity Conveyor	CD-41		OP2001033	42.53		20%				 					 	-		0.0686 0.0686	
P-42 P-43	Reacted Ore Material Handling Reacted Ore Material Handling	EU1630	Air Gravity Conveyor Air Gravity Conveyor	CD-42 CD-43	018 018	OP2001033 OP2001033	42.53 42.53		20%	†		†									0.0686	
P-44 P-45	Reacted Ore Material Handling	EU1640 EU1650	Air Gravity Conveyor	CD-44	018	OP2001033 OP2001033	42.53		20%	 			_						-		0.0686 0.1457	-
	Reacted Gre Material Handling	EU1660	Air Gravity Conveyor Power and Free	CD-45 CD-46/46A	018 018	OP2001033	42,53 42,53		20% 20%								1				1	
EP-46	Electrolyte Recovery	EU1670 EU1680		CD-46/46A CD-46/46A		OP2001033	42.53 42.53		20%			ļ									2.6143	
EP-47	Electrolyle Recovery	EU1690	Butt Cooling Bays	CD-46/46A		OP2001038 OP2001038	30,51		20%	 		†									12,8571	
EP-48	Ejectrolyta Recovery	EU1700		CD-48		OP2001033	42.53		20%												6.1286	
		EU1710 EU1720	Belt Conveyor Roll Crusher	1	018 018	OP2001033 OP2001033	42.53 42.53		20%													
		EU1730 EU1740	Bucket Elevator]	018	OP2001033	42,53		20%	-			ļ								1	
		EU1750	Bucket Elevator Screw Conveyor	1	018 018	OP2001033 OP2001088	42.53 42.53		20%	+		·	 					 	1]	
		EU1760 EU1770	Screw Conveyor Screw Conveyor]	018	OP2001033	42.53 42.53		20%			1										
P-49	Electrolyte Recovery	EU1780	Screw Corweyor	CD-49	018 018	OP2001083 OP2001083	42.53		20%			 									0,2400	See See See
		EU1790	Screw Conveyor		018	OP2001033	42.53		20%	1												
1		EU1800 EU1810	Screw Feeder Screw Feeder	1	018 018	OP2001038 OP2001033	42.53 42.53		20% 20%	 		1	1									
		EU1820 EU1830	Vibrating Screen	1	018	OP2001033	42.53		20%]	
		EU1840	Bath, Dense Phase Pump Bath, Dense Phase Pump		018 018	OP2001033 OP2001033	42.53 42.53		20%									†	1			
		EU1850	Crucible Cleaning Machine	1	018	OP2001033	42.53		20%	_		ļ										
P-50	Electrolyte Recovery	EU1880 EU1870	Vibrating Feeder Magnetic Separator	CD-50	018	OP2001088 OP2001088	42.53 42.53		20% 20%				 		†				1		1.9714	2000
D.51		EU1880	Rolary Breaker	 	ļ	OP2001033	42.53		20%			-					1	ļ	1		 	P 75.05
P-51 P-52	Electrolyte Recovery Room A Electrolyte Recovery Room B																	<u> </u>			<u> </u>	200400000000000000000000000000000000000
P-63 P-64	Electrolyte Recovery Room C Electrolyte Recovery Room D			ļ	ļ							 	 								-	6x/666
P-55	Electrolyte Recovery	EU1930	Air Silde	CD-55	018	OP2001033	42.53		20%	1											0,2400	
P-66 P-67	Electrolyte Recovery	EU1940	Air Slide	CD-66	018 018	OP2001033	42,53 42.53		20%									1			0.2400 0.5143	\$ 15 S
P-58	Fresh Ore Material Handling Electrolyte Recovery	EU1960 EU1960	Air Receiver Butt Blast Cleaning Machine		018	OP2001033 OP2001033 OP2001-062	42.53		20% 20%	.1											1.0286	
P-58 P-59 P-60	Monitor - Polline 1	EU1970 EU1980	Potiíne 1 (secondary emissions-roof vents)	N N	I/A I/A		with EU1990 with EU2000		20% 20% 20%			1	ļ	with EU1990 with EU2000	with EU1990	with EU1990		<u> </u>	-		50.2800 31.1400	
1	Monitor - Polline 2	EU1980 EU1990	Pottine 2 (secondary emissions-roof vents) Pottine 1 (primary emissions - stack)			OP2001-062 OP2001-062	19.89		20%	1		<u> </u>		1.9	with EU2000 1.9	with EU2000 7.4					T	⊣ 🖺
P-61	Poline I & II Stack	EU2000	Pottine 2 (primary emissions - stack)	20 of CD- 61A	071	OP2001-062	19.69		20%					1.9	1.9	7.4				-	29,0000	5544
P-62	161 Unit Stack	EU2010	Polline 3 (primary emissions-161 unit stack)	8 of CD-62	071	OP2001-062	14.22		10%					1.9	1,9	7.4		<u> </u>			7.2500 7.2500	3044
P-63	162 Unit Stack	EU2030	Politine 3 (primary emissions-162 unit stack)	8 of CD-63	071	OP2801-062	14.22		10%					1,9	1,9	7.4		ļ		-	1	
P-64	Monitor - Polline 3	EU2050	Polline 3 (secondary emissions-roof vent fugitives)	L N	I/A	OP2001-062	. EU2010 and 2	1030	10%					with EU2010 and 2030	with EU2010 and 2031	with EU2010 and 2033	2	<u></u>		<u></u>	22.2700	
	***************************************	EU2060	Ball Conveyor	1		OP2001933	42.53		20%			ļ										100 ES
P-65	Petroleum Coke Handling	EU2070 EU2080	Belt Conveyor Belt Conveyor	CD-65	0†8	OP2001033 OP2001033	42,53 42.53		20% 20%			+	+	<u> </u>							0.3429	
	-	EU2090	Ball Convayor	1		OP2001033 OP2001033	42.53 42,53		20% 20%]	
+		EU2100 EU2110	Balt Conveyor	 	 	OP2001033 OP2001033	42,53 42.53		20%	-		+	 	 	 	 		 	+			
2-66	Petroleum Coke Handling	EU2120 EU2130	Screw Conveyor	CD-66	018	OP2001033	42.53		20%	ļ		1	1								0.3429	99C1865
	***************************************	EU2130	Screw Conveyor		ļ	OP2001033 OP2001033	42,53 42,53		20% 20%				ļ							l	 	+
P-67	Petroleum Coke Handling	EU2140 EU2150	Screw Conveyor Screw Conveyor	CD-67	018	OP2001033	42,53 42,53		20%				1	<u> </u>							0.1286	
		EU2160 EU2170	Screw Conyeyor	 		OP2001033 OP2001033	42.53 42.53		20% 20%				ļ		-			-			 	100 glass (200 ft)
1		EU2180	Tumble Mill Buit Removal Press	j		OP2001033	42.53		20%	<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>					1	
		EU2190	Primary Butt Crusher	1		OP2001033	42.53		20%			ļ			<u> </u>						-	
	Primary Crusher (North)	EU2200 EU2210	Secondary Butt Crusher Vibrating Screen	CD-68	018	OP2001033 OP2001033	42,53 42.53		20%	+	1	+	+	1	 		1		l	<u> </u>	0,8571	
P-68														•		,	,					
P-68		EU2220 EU2230	Separator Vibrating Feeder			OP2001033 OP2001033	42,53 42,53		20% 20%	T		-									4	200

nission oint ID	Emission Point Description	Emission Unit ID	Emission Unit Description	Control Device ID	Control Device Code	Current Operating Permit	10-6,400 PM Limit (lb/fir)	10-6,405 РМ Цтік (іблімеіц)	10-6.220 or 40 CFR Part 50, Subpart S - Opacity	Subpart RRR PM Limit (lb/lon feed)	HCI Limit	- Subpart RRR HF Limit (lb/ton feed)	- Subpart RRR D/F Limit (gr/ton feed)	(lb/lon Al or green	Subpert LL - POM Limit (lb/ton Al or green	Subpart LL - PM Limit (Ib/ton Al or green anode)	Subpart LL - Hg Limit (µg/DSCM)	i Subpart LL - POM Limit (lb/ton green anode)	PM10 Limit (tpy)	VOC Limit (tpy)	Attachment B PM10 Limit (lb/hr)	SO2 Limit
		EU2240	Vibrating Feeder			OP2001033	42.53		Limit		+	<u> </u>		,	anode)	· · · · · · · · · · · · · · · · · · ·		-				
		EU2250 EU2260	Tumble Mill Butt Removat Press			OP2001033 OP2001033	42.53 42.53		20% 20% 20%										-			
2 80	Selman Comban (Garata)	EU2270	Magnetic Separator	00.00		OP2001033	42.63		20%		1										1.3714	
2-69	Primary Crusher (South)	EU2280 EU2290	Belt Conveyor Screw Conveyor	CD-69	018	OP2001033 OP2001033	42.53 42.53		20% 20%		+	-	+								1,3/14	
		EU2300 EU2310	Vibrating Feeder Vibrating Feeder			OP2001033 OP2001033	42.63 42.53		20% 20%													26052.56
		EU2320	Ball Mill			OP2001033	42.53		20%				<u> </u>									
P-70	Tertlary Crusher	EU2330 EU2340	Tertlary Butts Crusher Bucket Elevator	CD-70	018	OP2001033 OP2001038	42.53 42.53	<u> </u>	20% 20%				 	<u> </u>							1.1957	
		EU2340 EU2350	Vibrating Feeder			OP2001033	42.53		20% 20%													
1		EU2400 EU2410	βucket ⊟evator Bucket ⊟evator			OP2001033 OP2001033	42,53 42,53		20%										1			
		EU2450 EU2460	Screw Conveyor Screw Conveyor			OP2001033 OP2001033	42.53 42.53		20% 20%									ļ	-			
		EU2470	Screw Conveyor			OP2001033	42.53		20%													
		EU2550 EU2630	Vibratory Feeder Vibratory Feeder			OP2001033 OP2001033	42.53 42.53		20%		+											
		EU2640 EU2660	Vibratory Feeder			OP2001033 OP2001033	42,53 42.53		20% 20%]			
		EU2660	Vibratory Feeder Vibratory Feeder			OP2001038	42.53		20% 20% 20%													
-71	Anode Paste Production	EU2670 EU2680	Vibratory Feeder Vibratory Feeder	CD-71	018	OP2001033 OP2001033	42,53 42.53		20% 20%			-	 				 		-		0.1286	
1		EU2690	Vibratory Feeder		1	OP2001033	42.63		20%													
		EU2980 EU3000	Screw Conveyor Screw Conveyor	:	1	OP2001033 OP2001033	42,53 42.53		20%				╁───				 	 	1			
		EU5010 EU5020	Screw Conveyor			New unit - Const Permit 0298-001	42.53		20%]			100 ASS 200 AS
	Ì	EU5030	Screw Conveyor Screw Conveyor			New unit - Const Permit 0298-001 New unit - Const Permit 0298-001	42,53 42,53		20% 20%													
		EU5040 EU5050	Vibratory Feeder Vibratory Feeder			New unit - Const Permit 0298-001 New unit - Const Permit 0298-001	42,53 42,53		20%		-	-							-			
		EU5060	Magnetic Separator			New unit - Const Permit 0298-001	42.53		20%										1			
	<u> </u>	EU2390 EU2480	Bucket Elevator Screw Conveyor			OP2001033 OP2001033	42.53 42.53		20% 20%		+						<u> </u>		1			
		EU2490 EU2600	Rotary Vane Feeder			OP2001033	42.53		20% 20% 20%				-									1000000
		EU2510	Rotary Vana Feeder Rotary Vana Feeder	'		OP2001033 OP2001033	42.53 42.53		20% 20%				<u> </u>						1			
72	Anode Paste Production	EU2520 EU2630	Rotary Vans Feeder Rotary Vans Feeder	GD-72	018	OP2001033 OP2001083	42.53 42.53		20% 20%		-	-	-				1	+	-		0.3429	Sec.
		EU2880	Screw Feeder			OP2001933	42.53		20%		1						1					
		EU2940 EU3200	Screw Feeder Screw Conveyor			OP2001033 OP2001033	42.53 42.53		20% 20%		+	+	-						1			
		EU5070	Tramp Iron Separator			New unit - Const Permit 0298-001	42,53 42,53		20%]			
ļ		EU3080 EU3070	Vibratory Feeder Vibratory Feeder			OP2001033 OP2001033	42.53		20% 20%													
		EU3080 EU3080	Vibratory Feeder Vibratory Feeder			OP2001033 OP2001033	42,53 42,53		20% 20% 20%													
73	Anode Paste Production	EU3100	Conveyor / Bucket Elevator	CD-73	018	OP2001033	42.53		20%												1.5103	
		EU3110 EU3120	Paste Mixer Belt Conveyor	1		OP2001033 OP2001033	42,53 42,53		20% 20%			-	-					+	-			
		EU3130	Apron Conveyor			OP2001033	42.53		20%										1			
		EU3140 EU3150	Sersiv Conveyor Sersiv Conveyor	-		OP2001033 OP2001033	42.53 42.53		20% 20%			+	-						 			
		EU3160	Screw Conveyor	1		OP2001033	42.53		20%													
74	Anode Paste Production	EU3170 EU3180	Screw Conveyor Screw Conveyor	CD-74	018	OP2001033 OP2001033	42.53 42,53		20% 20%		1						<u> </u>	<u> </u>	 		0.2229	8.00050.00
		EU3190 EU3210	Screw Conveyor Screw Conveyor			OP2001033 OP2001033	42,53 42.53		20% 20%										 			
		EU3220	Screw Conveyor	1		OP2001033	42.53		20%													
79	Anode Cleaning System	EU3230 EU3620	Screw Conveyor Anode Cleaning Station	CD-79	018	OP2001033 OP2001033	42.53 42.53		20% 20%				-						·		0.4286	
80	Fresh Ore Handling	EU3630	Air-Float Conveyor	CD-80	018	OP2001033	42.53		20%	O-MANU 7 7 7 177	THE PERSON NAMED OF THE PE		·			:					0.2057	1
81 82	Fresh Ore Handling Ahode Stem Cleahing (Phase ()	EU3640 EU3650	Air-Float Conveyor Stub and Rod Cleaner	GD-81 GD-82	018 018	OP2001033 OP2001038	42.53 4.10		20% 20%				-								0.0279 0.7680	545767W600
83 84	Cathode Casting Station Anode Stem Cleaning	EU3660 EU3670	Collector Bar Cleaner Rod and Stub Cleaner	CD-83 CD-84	018	OF2001033 OF2001033 OF2001033	4.10 4.10		40% 20%												0.5186 0.4620	
88	Welding Furne Exhast for Aroda Repair	EU3680	Electric Welder	CD-86		OP2001038	7.10		2078										See Note 1	See Note 2	- VITORU	
87	Welding Fume Exhast for Shield Repair	EU3686	Electric Welder	N.	I/A	New unit - No Const Permit Regd per		1														
			i			3/24/2009 MDNR correspondence													ļ			4
91	Vent for Pitch Day Tank	EU3890, 3700 EU3710, 3720	Pitch Day Tank, Pitch Unloading Pumps Pitch Day Tank, Pitch Transfer Pumps	N.	VA VA	OP2001-052 OP2001-052			40% 40%			_	-								45.15.0%0.50%0	10000000
94	Natural Gas Fired Boiler for Hot Oil System	EU3730	Boiler for Hot Oil System	N.	I/A	OP2001032	500	Exempt per 20010032 Statement of Bar	sis 40%													
15	Natural Gas Fired Boiler for Hot Oil System	EU3740	Boiler for Hot Oil System	 	I/A	OP2001032		Exempt per 20019032 Statement of Bar			1					-		+	†	[
96	Natural Gas Fired Boiler for Hot Oil System Natural Gas Fired Boiler for Hot Oil System	EU3760	Boiler for Hot Oil System	1	I/A	OP2001032		exempt per 20010032 Statement of Bat 0.61					-	-				 	·	 	100000-00	+
7	Carbon Rodding Aluminum Spray Furnace	EU3755	Furnace -EU # has been changed from T5		I/A	OP2001032			20% 40%										1			1
	ł	EU3760 EU3770	Roll Conveyor (carbon bake) Roll Conveyor (carbon bake)	†		OP2001-062 OP2001-062	1		20% 20% 20%				 	1		1						188
	Ì	EU3780	Roll Conveyor (carbon bake)]		OP2001-062 OP2001-062 OP2001-062	-		20%					1		7		1			166 T TENSON TO	150
	ļ	EU3790 EU3800	Roll Conveyor (carbon bake) Roller Flight Conveyor (carbon bake)	1		OP2001-052 OP2001-062	†		20% 20%					1							1	1
		EU3810 EU3820	Belt Conveyor (carbon bake) Belt Conveyor (carbon bake)	-		OP2001-062 GP2001-062 OP2001-062	1		20%					-		1						
		EFI3830	Power Roll Conveyor (cerbon bake)	1		OP2001-062	1		20% 20%				1	1		1		Į.				
		EU3840 EU3850	Power Roll Conveyor (carbon bake) Power Roll Conveyor (carbon bake)	-		OP2081-062 OP2081-062	1		20%					-{		+		B.				
	<u> </u>	EU3860	Power Roll Conveyor (carbon bake)	1		OF2001-062	1		20%					1		1						1
,	Carbon Bake 1 Stacks (64 lotal)	EU3870 EU3880	Power Roll Conveyor (carbon bake) Power Roll Conveyor (carbon bake)	4 OF CD-98	071	OP2081-062 OP2081-062	19.69		20% 20%				-	0.2		0.2	1.7	0.18			l de la company	4
	,	EU3890	Pusher (carbon baka)	1 ~~~		OF2001-062	1		20/0		-					1						
	<u> </u>	EU3900 EU3910	Screw Conveyor Screw Conveyor	j	-	OP2001-062 OP2001-062	1		20%					1		<u> </u>						
	ļ	EU3920	Conveyor, Chain Drive (carbon bake)	1		OP2001-062	1		20% 20% 20%					-		-	1				1000	
		EU3930 EU3940	Conveyor, Chain Drive (carbon bake) Vertical Reciprocating Lift (carbon bake)	1		OP2001-062 OP2001-062	1		20%		+	+	 	1		1					1 5. 3. 4.	
		EU3960 EU3960	Air/Material Manifold	1		OP2001-062	-		20% 20%				-	4		4						
		EU3970	Burner Manifold (carbon bake) Burner Manifold (carbon bake)]		OP2001-062 OP2001-062	1		20% 20%			1		_		_						4
- 1		EU3980 EU3990	Burner Manifold (carbon bake)	1		OP2001-062	-		20% 20%					4		4						4
		EU4000	Burner Manifold (carbon bake) Burner Manifold (carbon bake)			OP2001-062 OP2001-062	1		20%					1		<u> </u>		1		***************************************		
		EU4010 EU4020	Conveyors (carbon bake)	4		OP2001-062 OP2001-062	1		20% 20%				·			_			-			
1		EU4020 EU4030	Conveyors (carbon bake) Conveyors (carbon bake)	1	1	OP2001-062	1		20%			1	1	₫		1					j	1
		EU4040	Conveyors (carbon bake)	4	-	OP2001-062 OP2001-062			20%					4	ļ	4					le e	1
- 1		EU4050	Conveyors (carbon bake)						20%													

Emission Point ID	Emission Point Description	Emission Unit ID	Emission Unit Description	Control Device ID	Control Device Code	Current Operating Permit	10-6.400 PM Limit (lb/hr)	10-6.405 PM Limit (Ib/MMBlu)	10-6.220 or 40 CFR Part 60, Subpart S - Opacity Limit	Subpart RRR PM Limit (Ib/Ion feed)	- Subpart RRR - HCł Limit (lb/ton feed)	HF Limit	Subpart RRR - D/F Limit (gr/ton fead)	Subpart LL - TF Limit (lb/ton Al or green anode)	Subpart LL - POM Limit (lb/lon Al or green enode)	Subpart LL - PM Limit (lb/ton Al or green anode)	Subpart LL Hg Llml (µg/DSCM)	Subpart LL - POM Limit (lb/ton green anode)	PM10 Limit (lpy)	VOG Limit (tpy)	Attachment B PM10 Limit (tpy) CO Limit (tb/hr)
EP-89	Carbon Bake 2 Stacks (64 total)	EU4080 EU4090 EU4090 EU4090 EU4090 EU4100 EU41	Conveyors (carbon bake) Bar Flight (carbon bake) Bar Flight (carbon bake) Seraw Conveyor (carbon bake) Seraw Conveyor (carbon bake) Seraw Conveyor (carbon bake) Conveyor, Chain Driven (carbon bake)	4 OF CD-99	071	OP2001-062	19,60		Cimit 20% 20% 20% 20% 20% 20% 20% 20% 20% 20%					0.2		0.2	1,7	0.18			
		EU4300 EU4310 EU4320 EU4330 EU4330 EU4350 EU4350 EU4350 EU4370 EU4380 EU4380 EU4380	Grean Anode Slacker (carbon bake) Burner Manifold (carbon bake) Power Roll Correveyor (carbon bake)			OP2001-082			20% 20% 20% 20% 20% 20% 20% 20% 20% 20%												
EP-AA	Cerbon Bake 3 Stack	EU4410 EU4420 EU4430 EU44430 EU44450 EU4450 EU4450 EU4470 EU4480 EU4490 EU4510 EU4510 EU4520 EU4530 EU4530 EU4540	Power Roll Comyeyor (carbon bake) Roller Conveyor (carbon bake) Accoumilative Conveyor (carbon bake) Conveyor, Chall Driven (carbon bake) Conveyor, Chall Driven (carbon bake) Conveyor, Chall Driven (carbon bake)	4 OF CD-	071	OP2001-062	22.63		20% 20% 20% 20% 20% 20% 20% 20% 20% 20%					0.2		0.2	1.7	0.16			
		EU4550 EU4560 EU4570 EU4580 EU4680 EU4680 EU4610 EU4620 EU4630 EU4640 EU4650 EU4660 EU4650	Conveyor, Chain Driven (carbon bake) Burner Manfold (carbon bake) Burner Manfold (carbon bake) Burner Manfold (carbon bake)			O 2001-062 OP2001-062			20% 20% 20% 20% 20% 20% 20% 20% 20% 20%												
EP-AB	Stack for Pkg Melker	EU4680 EU4690 EU4700 EU4710	Burner Manifold (carbon bake) Burner Manifold (carbon bake) Burner Manifold (carbon bake) #3 Melting Furnace-Pig (Metal Products)	-	l/A	OP2001-062 OP2001-062 OP2001-062 OP2001-066	19,18		20% 20% 20% 20%	0,4	0,4	0.4	2,10E-04								
EP-AD EP-AE	Stack for #1 Melter Stack for #1 Holder	EU4710 EU4730 EU4740	#1 Meiting Furnace (Metal Products) #1 Holding Furnace (Metal Products)	l N	I/A I/A	OP2001-066 OP2001-066	19,18 19,18		20%	0.4 0.4	0.4		2.10E-04 2.10E-04						_		
EP-AF EP-AG	Stack for #2 Melter Stack for #2 Holder	EU4750 EU4760	#2 Melting Furnace (Metal Products)	N	VA VA	OP2001-066 OP2001-066 OP2001-066	19.18 19.18		20% 20% 20%	0.4	0.4 0.4 0.4	0.4 0.4	2.10E-04 2.10E-04			 					
EP-AH	Stack for #4 Melter	EU4770	#2 Holding Furnace (Metal Products) #4 Melting Furnace (Metal Products)	N	VA.	OP2001-066	19.16		20%	0.4	0.4	0.4	2.10E-04					-		 	
EP-AJ	Steck for #4 Holder Stack for Homogenizing Furnace #1	EU4780 EU4790	#4 Holding Furnace (Metal Products) #1 Homogenizing Furnace		VA VA	OP2001-066 OP2001032	19.18 19.18		20% 20%	.0.4	0,4	0,4	2.10E-04		<u> </u>				<u> </u>		
EP-AK EP-AL	Stack for Homogenizing Fernace #2 Stack for Homogenizing Fernace #3	EU4800 EU4810	#2 Homogenizing Furnace #3 Homogenizing Furnace		VA VA	OP2001032 OP2001032	19.16 19.18		20% 20%		<u> </u>				ļ	-	-		ł		
EP-AN EP-BA	Stack for Pig Melter #2 Stack for Rod Mill #1 Melter	EU4830 EU4840	#5 Fig Melter (Metal Products) #1 Charge Furnace (Rod Mill)	N	VA VA	OP2001-066 OP2001-066	19,18 19,18		20% 40%	0,4 0.4	0,4 0,4	0.4	2.10E-04 2.10E-04				1		See Note 1	See Note 2	
EP-BB EP-BC	Stack for Rod Mill #1 Holder Stack for Rod Mill #2 Melter	EU4850 EU4860	#3 Holding Furnace (Rod Mill) #2 Cherge Furnace (Rod Mill)	1 1	VA VA	OP2001-066 OP2001-066	19.18 19.18		40%	0.4 0.4	0,4	0.4	2.10E-04 2.10E-04								
EP-BD	Stack for Rad Mill #2 Holder	EU4870	#4 Holding Furnace (Rod Mill)	1 1	VA.	OP2001-066	19.18		40%	0.4	0.4	0.4	2.10E-04				1		Spo Note 1	San Mais 2	
EP-BH EP-BI	#5 Rod Mill Holder Natural Gas Fired Boller for Office Heat	EU4890 EU4900	Cone Casting Furnace Hot Water Boller		VA VA	OP2001-066 OP2001632	12.95 N/A	Exempt per 20010032 Statement of Basi	20% s 40%	0,4	0.4	0,4	2.10E-04			†			See Note 1	See Note 2	
EP-BJ	Natural Gas Fired Boiler for Locker Room Heat	EU4910	Hot Water Boller	1	VA	OP2001082	N/A	0.61	20%										<u></u>		
EP-8K	Natural Gas Fired Boiler for Locker Room Heat	EU4920	Hot Water Boiler		I/A	OP2001032	N/A	Exempt per 20010032 Stalement of Bas													
EP-BL	#2 Diesel Fuel Storage Tank	N/A	Fuel Tank		I/A	nsignificant activity	N/A		N/A		1						1		 	 	
EP-BM EP-BN	#2 Diesel Fuel Storage Tank Gasoline Storage Tank	N/A N/A	Fuel Tank Fuel Tank		VA VA	Insignificant activity Insignificant activity	N/A N/A		N/A N/A	<u> </u>									ļ		
EP-DW	Potline Crusher	New - EU5000	Poline Crusher	CD-DW	016	New unit - No Const Permit Regd per 3/08/1999 MDNR correspondence	12.05		20%												3.7543
-	NAC ALCOHOL CO.	New - EU5100	Rolary Luba Blower			New unit - Const Permit 0298-001	42,53		20%										See Note 1		
		New - EU5110 New - EU5120	Air Veyor Turntable Vibrating Compactor	4		New unit - Const Permit 0298-001 New unit - Const Permit 0298-001	42,53		20% 20%	ļ			-						See Note 1	See Note 2	
EP-100	Anode Paste Process	New - EU5130	Kneader	CD-100	071	New unit - Const Permit 0298-001	42,53		20%	 		 				T			See Note 1	See Note 2	
		New - EU5140 New - EU5150	Pitch Weigh Pot Pitch Pumps	_		New unit - Const Permit 0298-001 New unit - Const Permit 0298-001	42.53		20% 20%										See Note 1 See Note 1	See Note 2	
 		New - EU5160 New - EU5200	Pitch Pumps Säde Gate		-	New unit - Const Permit 0298-001 New unit - Const Permit 0298-001	42,53		20% 20% 20%						-				See Note 1 See Note 1	See Note 2	
		New - EU5210	Screw Conveyor	7		New unit - Const Permit 0298-001	42.58		20%		-		ļ				—		Sea Note 1	See Note 2	
EP-101	Fraction Handling	New - EU5220 New - EU5230	Screw Conveyor Screw Conveyor	CD-101	018	New unit - Canst Permit 0298-001 New unit - Const Permit 0298-001	42.53		20% 20%										See Note 1	See Note 2 See Note 2	
	· · · · · · · · · · · · · · · · · · ·	New - EU5240 New - EU5250	Screw Conveyor Screw Conveyor	1 55.51		New unit - Const Permit 0298-001 New unit - Const Permit 0298-001	42.53 42.63		20% 20%	<u></u>		<u> </u>					<u> </u>	<u> </u>	See Note 1		
		New - EU5260	Screw Conveyor	-		New unit - Const Permit 0298-001	42.53		20%				-						See Note 1 See Note 1	See Note 2	
	THE RESERVE AND ADDRESS OF THE RESERVE AND ADDRE	New - EU5270 New - EU5300	Air Veyor Screw Conveyor	1		New unit - Const Permit 0298-001 New unit - Const Permit 0298-001	42.53 42.53		20%		_								See Note 1	Sea Note 2	
ED_107	Proportioning System	New - EU5310	Screw Conveyor	LU-1400	птя	New unit - Const Permit 0298-001	42.53		20%	<u> </u>			<u> </u>		1	l			See Note 1	See Note 2	

Summary of Applicable Emission Limits

Emission Point ID	·	Emission Unit (D	Emission Unit Description	Control Device ID	Control Device Code	Current Operating Permit	10-6,400 PM Limit (lb/hr)	19-6.405 РМ Limit. (ib/ммВiu)	10-8,220 or 40 CFR Pert 60, Subpart S - Opacity Umlt	PM Limit	Subpart RRR - HCl Limit (lbAon feed)	HF Limit	D/F Limit	(ID) (D) FO CA GILLON	Subpart LL - POM Limit (fb/ton Al or green anode)	Subpart LL - PM Limit (Ibiton Al or green anode)	Subpart LL - Hg Limit (µg/DSCM)	Subpart Lt POM Limit (lb/ton green anode)		(fpy)	Attachment B PM10 Limit (lb/hr)	SO2 Limit (lpy) (lb/hr)
Ct. 105	1 Toportioning system	New - EU5320	Buckel Elevator	00-102	100	New unit - Const Permit 0298-001	42.53		20%	DUSARanana anaka27777	****								See Note 1	See Note 2		Section Control
1.		New - EU5330	Preheating Screw Conveyor	1		New unit - Const Permit 0298-001	42.53		20%										See Note 1	See Note 2		
EP-108	Phase 1 & 2 Rod Brush Station	New - EU5400	Red Brush Station	CD-108	018	New unit - Const Permit 0298-001	42.53		20%										See Note 1	See Note 2		
EP-109	Phase 3 Rod Brush Station	New - EU5410	Rod Brush Station	CD-109	918	New unit - Const Permit 0298-001	42.53		20%										See Note 1	See Note 2		
EP-110	Anode Crushing	7	Anode Crushing						20%													
	ode Saw	?		CD-110					20%												100	
EP-112 Ro	d Mill 2 Holding Furnace # 6	?		. N	ľA.	New unit - 122007-005			20%													
EP-113 Ro	i Mill 2 Holding Furnace # 7	3		N	VA.	New unit - 122007-005			20%													
EP-116 F	resh Ora Malerial Handling, 136 Intermediate Silo	New - EU5429	Fresh Ore Material Handling, 138 intermediate Sito	N	I/A				20%													
EP-116	Rod Mill 3 Holding Furnace # 6	New - EU5430	Rod Mill 3 Holding Furnace # 8	i N	l/A	New unit - 042013-011			20%				f								1	
EP-117	Rod Mill: 3 Holding Furnece #9	New - EU5440	Rod Mill 3 Holding Fumace #9	· N	VA.	New unit - 042013-011			20%							1		1	1			

NOTE:
1. Construction Permit 0298-001 established an emission limit of 16 tpy PM10 for all units included in Permit 0298-001, 0894-002, 0194-008,
2. Construction Permit 0298-001 established an emission limit of 40 tpy VOC for all units included in Permit 0298-001, 0894-002, 0194-008, 0899-013, 1288-003, and 1282-007,

Process Weight Rule and Compliance Assurance Monitoring
Applicability Calculations

PM and PM10 Emissions Data Sammuty for Use in Evaluating the Process Weight Rule Requirements as well as the Compliance Assurance Monitoring Requirements

													Ta PWH PM Limit Crouler flow	is FWR FM Limit					
				Cantrel Efficiency For Femores of				Specific Pallots	or The controlled P	TE Various Med PT	T Cartelled FIX		ikhe PM Erologion Rate (f.c linkspent Compliance whiteat Control) I if	Greater thes Controlled to be PM Emission Rate (i.e. Inherent Compliance with Controlly II "Yes".					
Emission Point ID Emission Point Description	Enterios Valt 1D Exclusion Unit Description	Control Device 10	Control Device Description	Evaluating Capture Compliance with Eiffelency 2199.	Updated MITER Hph)		Factor Scorce of Up Obviou) Emission Fo		Buerd au Updat	ed Bered on Update MITOR (105)	rd Easted on Updated MINDR (Tober)	PWR Limit Based i an Updated en	inherently in	interestly in h compliants with the	Berathe Vall Meet CAM Criteria ≠1 (subject to na ambeisa firmit):	Dans the Unit must CAM Criticia #2 (one a sant rel device to paret (27	Dura the Unit pass CAM Science 93 (Narouted at FTE > 100 tyr)	Is announted to FTE prester than Major Secret threshold (198 195)? 16 "Yes", Emission Point meets CAM Criteria 3.	la tiels Cult Subject to CAM ?
69-91 Aber Unloading 69-02 Aber Unloading	908010 Victoum Unionsier 908020 Victoum Unionsier	GD-1 GD-2		180 99	200 200	30309104 30309104	19 FIRE 19 FIRE	PM	2090 2000	8780 8780	20.00 20,08	58.61 68,61	No No	Yes Yes	Yes Yes	No, baghouse is inherent to the vacuum process No, baghouse is inherent to the vacuum process	Does not Meet Ordenia Z. so no need to determine Ordenia 3 Does not Meet Ordenia Z. so no need to determine Ordenia 3	Does not Meet Orderia 2, so no meet to determine Orderia 3 Does not Meet Orderia 2, so no meet to determine Uniteria 3	Net Subject to CAM Net Subject to CAM
	GVB010 Ain Eds GVB010 Ain Eds			\$2 \$4	200 200	36908104 30308104	18 FIRE 18 FIRE		2000 2000	8780 8780	20.08 20,09	58,61 58,61	No No	Yes Yes	Yas Yas	No, bughouse is inherent to the preumatic process No, bughouse is inherent to the preumatic process	Does not litest Onteria 2, so no need to determine Onteria 3 Does not Meet Onteria 2, so no need to determine Onteria 3	Does not Meet Criteria 2, so no seed to determine Driteria 3 Does not Meet Criteria 2, so no seed to determine Driteria 3	Het Subject to CAM Not Subject to CAM
	HIMPSO Ainlide HIMPSO Ainlide			99 99	200 200	30309104 30309104	19 FIRE 19 FIRE		2900 2900	8780 8780	20,00 20,08	68.61 88,61	No No	Yes Yes	Yas Yas	No, brighouse is litherent to the presumable process No, brighouse is fahesent to the presumable process	Does not Meet Onteria 2, so no need to determine Critaria 3 Does not Meet Onteria 2, so no need to determine Critaria 3	Does not Meet Criteros 2, so no seed to determine Criteria 3 Does not Meet Criteria 2, so no seed to determine Criteria 3	Not Subject to CAM Not Subject to CAM
SP-63 River Unknoding	EU0-77 Am Rie EU0080 Am Rie	CD-3	18	180 P3	200 200	30306104 30306104	19 FIRS 18 FIRS		2000 2000	8790 8780		58,51 £9,61	No No	Yes Yes	Year Year	No, bughous a tribbesent to the pneumatic process No, bughous a tribbesent to the pneumatic process	Does not Meet Order's 2, so no Heed to determine Order's 3 Does not Meet Order's 2, so no Heed to determine Order's 3	Does not Meet Criteria 2, so no seed to determine Cateria 3 Does not Meet Criteria 2, so no seed to determine Cateria 3	Het Subject to CAM Net Subject to CAM
	(IVAR)99 Adm Edw (IVAR)109 Adm Edw			99 M	200 200	30300104 30300104	19 FIRE 19 FIRE		2900 2900	8780 8760	20,00	54.51 88.61	No No		Yes:	No, brighouse in takent to the preumatic process No, brighouse in faherent to the preumatic process	Does not kiest Ontere 2, so no result to determine Criteria 3 Does not Most Onteria 2, so no result to determine Criteria 3	Does not Most Critistis 2, so no seed to determine Catalós 3 Does not Mast Critistia 2, so no seed to determine Critistis 3	Not Subject to CAM Not Subject to CAM
	919910 Vibrating Feeder 919910 Vibrating Feeder			89 80	200 200	30306104 30306104	10 FIRE		2000 2000	8760 6760	20,08	59.61	No No	Yas Yas	Yes: Vere	Yes	Yes Yes	Yas Yas	Subject to CAM Subject to CAM
6P-94 Railear Valoriting	PURSO Vibration Feeder URBSO Serew Cornwest	CD-4	18	180 96	200	30309104	10 FIRE	PM	2000	6780	20,08	69.01 81.01	No No	Yes Yes	Yes Yes	Ves. Ves	Y41 Yes	Yes Yes	Subject to CAM Subject to CAM
	GUB150 Car Shaker GUB150 Barket Shawar		-	P\$	200 200	30306104	16 FIRE		2000	8760	20,09	59,ü1	No No	Yes Yes	Yes: Yes:	Yez Yes	Ye1 Yes	Y22 Yes	Subject to CAM Subject to CAM
	PARITO Backet Blowler			67 89	200	30308104 30308104	10 FIRE 10 FIRE		2000	6760 6760	20,00 20,00	68,51	No	Yas	Yes	Yes	Yeq	Yes	Subject to CAM
	PMB180 Abr.Eds 200190 Abr.Eds			99	200 200	30306104 30300104	10 FIRE		2000	6760 8760	20,00 20,00		No No	Yes Yes	Yos Yas	7es Yes	748	Yes Yes	Subject to CAM
RP-85 Presh Des Material Hamiling	PMR200 Ain Ris PMR200 Ain Ris	CD-4	15	190 80	200 200	30300104	10 FRE 10 FRE	PM	2000	8760 8760	20,00	58.51 68.51	No No	Yes	Yes Yes	Yes Yaa	Yes Yes	Yez Yes	Subject to CAM Subject to CAM
	018220 Admités 018220 Admités			60 60	200 200	00300104 00300104	10 FRE		2000 2000	6760 8760	20.00 20.00	68.51 58.51	No No	Yes Yes	Yes Yss	Yes Yes	Y45 Y40	Yez Yes	Subject to GAM Subject to GAM
	CLECAGO AGREGA CLECAGO AGREGA			00 89	200 200	30350104 30350194	9819 (N 9849 (N		2000 2000	8760 8760	20.90 20.90	68.51 68.51	Me No	Yex Yex	Yes Yes	Yes Yes	Y44 Y44	Yes Yes	Subject to GAM Subject to GAM
09-05 Fresh Ore Material Handling	PUB240 Ainkis BUB270 Bek Conveyor	GD-6	16	160 00	200 200	30300104 30300104	10 FIRE		2000 2000	8760 8760	20 80 20 80	66.51 56.51	iro No	Yes Yes	Yes Yes	No, baghouse is inherent to its presentite process Yes	Does not Meet OrReita Z. au au need to deformine Orteria 3 Yes	Does not Meet Criterta 2, so no need to determine Criteria 3 Yes	Not Subject to GAM Subject to GAM
	USB.280 September Mechino BUR.290 Air Granity Conveyor			89	700 700	30380194 30380194	10 F.R.E.		2000 2000	8769 8760	20 90 20 90	58.51 58.51	Ma Ma	Yor Yor	Yes Yes	Yas Yas	Yes Yes	Yes Yes	Subject to CAM Subject to CAM
	P10300 Air Gravity Conveyor P10310 Air Gravity Conveyor			69	200 200	30390104 30390104	10 FRE		2000 2000	8740 8740	20.00 20.00	58.51 68.51	No No	Yes Yes	You You	Yas Yas	Yee	Yes Yas	Subject to CAM Subject to CAM
	PUB320 Ale Gravity Conveyor PUB330 Ale Gravity Conveyor		.]	99	200	30380194 30380194	N F-RE 10 F-RE		2000 2000	8760 8760	20.00	58.51 58.51	No No	Yes	Yas Yas	Yas ·	Yee Yee	Yei Yes	Subject to CAM Subject to CAM
GP-07 Fresh Ore Malectal Hundling	PLEASO FAN	CD-7	18	166 99	265 200	30390194	10 FIRE 10 FIRE	₽₩	2000	8760 8750	20.00	68,51 68,51	No No	Yaq Yac	Yes Yes	Yay Yaz	Yos Yes	Yes Yes	Subject to CAM Subject to CAM
	RUSSTO LIRTure of			99	109	30380184	10 FIRE		2009	8700	20.00	48,61	No	Vse Yse	Yes Yes	Yez	Yea Yea	Yes Yes	Subject to GAM Subject to GAM
	P120390 Bloss of With Altern and Muster			99	200 200	30390164 30390164	10 FIRE 10 FIRE		2000 2000	8760 8760	20.00	58.51 58.51	Ho Ho	Yee	Yes	Yax	Yes .	Yez	Subject to GAM
	BLOSED State of with Sheet and Michael BLOSED Blose of with Sheet and Michael Blose of Mich			99	200 200	30300184 30300184	10 FIRE 10 FIRE		200a 200a	6760 8760	20.01	68.61 59.61	No No	Yas Yes	Yes Yes	Yes Yes	Yes Yes	Yer Yes	Subject to CAM Subject to CAM
	677940 [Tif. Loss et 873940 Archips		+	99	200 200	39380194 39383184	10 FIRE		2014 2018	8760	20.01	58.61 58.51	Ho Ho	Yes Yes	Yes Yes	Yes Yes	Yas Yas	Yes Yes	Subject to CAM Subject to CAM
	RUS450 Euit Tower RUS460 Meglille			99	200	30300184 30300104	10 FIRE		2008 2009	6760 6760	20.00 20.00	58.61 58.61	No No	Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Subject to CAM Subject to CAM
	810440 915am or with filters and Michael 810440 915am or with filters and Michael			79	200	3630104 3630104	10 FIRE 10 FIRE		2008 2008	8760 8760	20.00	58.61 59.61	tio No	Yes Yes	Y65 Y89	Yes Yeş	Yes Yes	Yes Yes	Subject to CAM Subject to CAM
	BLOSEO Han With Deeps and Motor			29 29	100	30306104 99306104	10 FIRE 10 FIRE		2008 2009	6750 6750	20.00	58.61 58.61	No No	Yeq	Yes Yaş	Yes Yeş	Yes Yes	Yes Yes	Subject to CAM Subject to CAM
GP-08 Feech Ore Mutarial HandEng	810510 Fen 210610 Mr Greiby Conveyer	6.63	1.0	100 99	290 200	30300104 30300104	to FIRE		2009 2008	8760 9760	29.00 29.00	98.61 98.61	He No	Yes Yes	Yes Yes	Yes Yas	Yes Yes	Yes Yes	Subject to CAM Subject to CAM
	810510 Juri Gently Conveyor 810510 Juri Gently Conveyor			P9 P9	200 200	36300104 36300104	10 MARE 10 MRE		2009 2009	9758 8758	29.00 29.00	98 61 98 61	Ne No	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Subject in CAA! Subject to CAA!
	800360 Ale Gently Conveyer B10310 Ale Gently Conveyer			99 99	700 200	30306104 30306104	10 Farsé 10 Farsé		2090 2090	8769 8769	29.00 29.00	58 61 58 61	Ha No	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Subject to OAM Subject to CAM
	81.0592 Servending & Feebino 81.0599 Birth Charleston			F9	200 200	30300104 30300104	10 FIRE 10 FIRE		2000 2000	8768 8769	20.00 20.00	\$6.51 \$6.51	No No	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes	Subject to CAM Subject to CAM
	SLE002 Abrilde GL0410 Abrilde 			99 99	700 200	30300104 30300104	10 FIRE 10 FIRE		2000 2000	8769 8760	28.00 25.00	\$8.51 \$8.51	No No	Yes Yes	Yes Yes	Yoş Yoş	Yez Yes	Yes	Subject to DAM Subject to DAM
RF-09 Resulted Ore Material Handling	81/09/20 Abrillio 81/09/20 Abrillio	CD-8	18	100 PN	200	30300104 30300104	10 FORE	Pla	2080	876D	20.06	\$8.51 \$8.51	No No	Yes	Yas Yas	Yes Yes	Yes Yes	Yes Yes	Subject to CAM Subject to CAM
	SU0649 Ball Conveyor		18	PS	290	30300104	10 PINE		2090 2090	3760 8760	20.00	88.91	No	Yen	Y41	Yes Yes	Yez Yez	Yes Yes	Subject to CAN
RP-10 Reserved Over Material Hastering	SLI0660 Bith Conteyor	CD+10	18	D6	200 200	30300104 30300104	10 FIRE 10 FIRE		2000 2000	8760 8760	29.09	53.51 68.61	No No	Yes Yes	Yau	Yes	Yes Yes	Yes	Subject to CAM
	SU64X3 Story Continue State	1		P9 99	200	30300104 30300104	10 F.R.S. 10 F.R.S.		2090 2090	8760 8760	20.00	\$8.51 \$8.61	No No	Yes Yes	Y44	Y85 Y85	Yes	Yes Yes	Subject in CAM Subject in CAM
	\$13690 \$1m Created State \$13700 Abrilde			99 99	200	30300104 30300104	10 F/56 10 F/66		2080 2080	8760 8760	20.04	53.61 53.61	No No	Yes Yes	Y44 Y48	Y45 Y45	Yes Yes	Yes Yes	Subject to CAM Subject to CAM
RF-11 Fresh Gre Material Hopaliting	SU0710 Abrilde SU0720 Abrilde	CD-11	18	100 99	290 280	30300104 30300104	10 FIRE 10 FIRE	PM	2090 2090	8790 8760	20.08	18.83	No No	Yes Yes	Ye1	Yes	Yes Yes	Yes Yes	Subject to CAM Subject to CAM
	E10730 Akribto 210740 Akribto			99	299 290	30360104 30200104	10 FIRE 10 FIRE		2080 2080	8760 8780	20.09	18.63 18.63	No No	Yes Yes	Yas Yas	Yes Yes	You You	Yes Yes	Subject to CAM Subject to CAM
	EU07:0 Airdide EU0766 Aledide			99 96	290 299	30360404 30360104	10 FIRE 10 FIRE		2089 2068	8790 8790	2d,00 2d.00	85.61	No No		Yes Yes	Yea Yea	Yes Yes	Yes Yes	Subject to CAM Subject to CAM
	EU0770 Airblic EU0770 Airblide			96 96	290 290	30360164 30360164	10 FIRE 10 FIRE		2000 2900	8761	20,00 20,00	68.61	No No	Yes Yes	Yes Yes	Yes Yes	Yos Yos	Yes Yes	Subject to CAM Subject to CAM
RY-12 Resolut Ope Makeyed Hapeling	EU0750 Brit Cessoyon EU0800 Aintido	CD-12	18	100 99	290 209		10 FIRE 10 FIRE	PM	2004 2004	8760		85.51		Yes Yes	Yeb You	Yes Yes	Y55 Y92	Yes Yes	Bubject to DAM Subject to QAM
 	EU0810 Akvilde EU0820 Sido Discharge Gate		+	96	280 280		10 FIRS		2000 2500	8760	20.00	58.51 58.51	Na	Yas	Yss Yss	Yes Yes	Yos Yos	Yes Yes	Subject to CAM Subject to CAM
	RC0810 Brit Canveyor RC0848 Brit Canveyor			89 89	290 200		10 FIRE 10 FIRE		2800 2800	8,760	20,00	68.51		Yes Yes	Yaa Yaa	Yes Yes	Yas Yas	Yes Yet	Subject to CAM Subject to CAM
GP-11 Resetted One Material Handling	ELUGSO Akribás ELUGSO Akribás	OD-13	18	109 99	260 260	38300104	10 FIRE 10 FIRE	PM	2000 2000	8760	29.00	58.51 58.51	No	Yes Yes	Yes Yes	Yes Yes	Yox Yos	Yes Yes	Subject to CAM Subject to CAM
	EC0870 Akrikde EC0880 Burket Elevator			99	20% 20%	3030-010-4	10 FIRE 10 FIRE		2809 2000	8760	20.00	68.51 68.51	No	Yes	Yez Yos	Yes Yes	Yez Yes	Yes Yes	Subjectio CAM Subjectio CAM
SF-14 Fresh Ore Microsof Repolling	EC0890 Belt Conveyor EC0800 Abride	CD-14	18	100 96	100 rea		19 FIRS		1800		10.60	51.28 61.28	Na	Yes Yes	Yea Yea	Yes Yes	Yos Yez	Yes Yes	Subjectio CAM Subject to CAM
	EC0918 Arable EC0920 Ellower with Others and Moster		++	109 98 99 99	180	36305104 36305104 36305104	19 FIRE 19 FIRE		1805	4980	10.00		Иa	Yex	Yea Yea	Yes No, backpoine is inherent to the pneumatile process	Yes	Yes Does not Meet Criteria 2, as no need to defermine Criteria 3	Subject to CAM Not Subject to CAM
	EC0930 Air Crashy Conveyor EC0930 Air Crashy Conveyor EC0960 Air Crashy Conveyor			99 99	100 100	38303104 38303104 38303104	16 FIRE 16 FIRE		1000	4385				Yes Yes	Yas	No, baghouse is interest to the pneumatic process No, baghouse is interest to the pneumatic process No, baghouse is interest to the pneumatic process	Does not Meet Ortens 2, so no need to determine Griss 3	Does not Meet Oritoria 2, so no peed to determine Critaria 3 Does not Meet Oritoria 2, so no peed to determine Critaria 3 Does not Meet Oritoria 2, so no peed to determine Critaria 3	Not Subject to CAM Not Subject to CAM Not Subject to CAM
	EC0978 Air Cravity Conveyor			99	160	38300104	18 FIRE		1800	4380	10.00	51.28	Na	You	Yes Yas	No, baghouse is inherent to the pretimalic process	Does not Meet Onteria 2, on no need to determine Criteria 3	Does not Meet Certeria 2, so no need to determine Criteria 3 Does not Meet Certeria 2, so no need to determine Criteria 3 Does not Meet Certeria 2, so no need to determine Criteria 3	Not Subject to CAM Not Subject to CAM Not Subject to CAM
RP-15 Fresh Sire Manusal Handing	EC0848 Ale Crasby Conveyor EC0890 Ale Crasby Conveyor	00-1s	18	99 99	160	30303104 30303104	19 FIRE 10 FIRE	PM	1900	4186	10 00	61.28	Ka .		Yes Yes	No, bagiquese is interest to the popularistic process No, bagiquese is interest to the popularistic process	Does not Meet Ordana 2, so no need to determine Crimin 3	Dans not Meet Orderia 2, so no read to determine Criteria 3	Nat Subject to CAM
	EU1008 Air Gravity Conveyor EU1018 Air Gravity Conveyor	1		99	F00	30300104 30300104	16 FIRE 15 FIRE		1090	43A9 43A9		51.28	No No	Yes Yes	Yes Yes	Ro, baghouse is inherent to the psychratic process No. baghouse is inherent to the psetzmatic process	Does not Mest Critera 2, so no need to determine Critera 3	Boas not triest Criteria 2, so no need to determine Criteria 3 Does not Ment Criteria 2, so no need to determine Criteria 3	Net Subject to DAM Net Subject to DAM
	EUJ020 Afrikās EUJ030 Afrikās	1		99 98	Fan Fao	36309104 38309104	10 F/RE		1000		10.00	51,28 61,28	No	Yas Yau	Yes Yes	No. baginouse is injurent to the pretunate process No. baginouse is inherent to the pretunate process	Does not Mest Criteria 2, so no need to sistembre Orderta 3	Dees not Meet Criteria 2, so no need to determine Criteria 3 Dees not Meet Criteria 2, so no need to determine Criteria 3	Not Subject to CAVI Not Subject to CAVI
	E01048 Aintide E01050 Aintide			99 99	100 100	30300104 30300104	10 FIRE 10 FIRE		1000	43.50		61.28	No No		Yes Yes	No, baggouse is injurent to the pseumatic process No, baggouse is injurent to the pseumatic process	Does not Meet Criteria 2, so no need to determine Orderia 3	Opes not Meet Criteria 2, so no need to determine Criteria 3 Opes not Meet Criteria 2, so no need to determine Criteria 3	Not Subject to CAM Not Subject to CAM
EP-16 Fresh Cru Material Handling EP-17 Fresh Cru Material Hundling	E01050 Ale Grandry Coppeyor E01070 Ale Grandry Coppeyor	00-16 00-17		100 FG	Laa Laa	30309104 30309104	10 FIRE 10 FIRE		1000 1000		10.04	51.25 51.25	No No	Yee	Yaş Yaş	No, begiouse is misered to the presentate process No, begiouse is misered to the presentato process	Does wit Meet Orllank 2, so no need to determine Onlank 3.	Does not Med Criteria 2, so no need to determine Criteria 3 Does not Med Criteria 2, so no need to determine Criteria 3	Nat Subject to CAM Hat Subject to CAM
EP-18 Presh Cra Material Haudling EP-19 Presh Ora Material Haudling	HD1030 Me Grouby Control of HD1030 Ale Grouby Control of	00-l6 GD-18	18	109 99 100 89	[40 [40	30300104 30300104	10 FAE 10 FAE	PM PM	1000	4380 4380	10.00	61,28 51,28	No No	Yes Yes	Yes Yas	No, baghquae is inheerd to the preumatic process	Does not Meet Criteria Z. so no need to determine Criteria 3	Does not Mast Criteria 2, so no need to deterrate Criteria 3 Does not Mast Criteria 2, so no need to deterrate Criteria 3	Mat Subject to CAM Not Subject to CAM
EP-24 Fresh Ore Material Handling EP-24 Fresh Ore Material Handling	EU(100 Ale Graphy Chapter of EU(110 Ale Graphy Chapter of	00-20 00-21	ta ta	100 56	F40	36308104 36308104	10 FACE	P94 P14	1000 1000	4380	10.00	51.25 51.25	No No	Yes Yes	Yes Yes	No, beginnes is inheerd to the preumate process No, beginnes is inheerd to the preumate process	Does hat Meet Official 2, so so need to determine Ontaria 3	Does not Meet Criteria 2, so no need to determine Criteria 3 Does not Meet Criteria 2, so no need to determine Criteria 3	Not Subject to CAM Not Subject to CAM
	EU1126 Air Gravity Copyreyor]		109 199	100-	30306104	10 FIRE		6000	4380	10.05	51,28	No	Yes	Yez	No, haghouse is inherent to the preservable process	Does not Meet Cetteria Z. so no need to determine Cetteria 3	Dose not Meet Orderta 2, so no need to determine Orderta 3.	Not Subject to CAM

Magallado 7 Molais

PM and PM to Entire lots Data Statement for Use in Endurating the Process Weight Rule Requirements as shall as the Compiliance Assurance Manifesting Requirem

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Color	reet .	fo macanigalied PFE greater than Klujar Source threakald (100 typ)?	
Second Column	Does the Unit meet CAM Criteria #7 (surroutedled FTE > 556 Does not Mont Criteria 2, so no need to delayrairs Criteria	(6 (p)) If "Yes", Exitados Patel meets CAM Criticia J. Does got Meet Criticia Z, so no seed to detaining Criticia 3	te this that Subject to CAM 7 Not Subject to CAM 7
Property	Date not Meet Criteria 2, so no need to determine Criteria	rie 3 Does not Meet Ciride Is Z. so no Need in setskinine Divisors 3	Not Subject to CAN
Part	Does not Meet Criteria 2, so no need to determine Criteria Does not Meet Criteria 2, so no need to determine Criteria	nia 3 Doss not Meet Citierts Z, so no result to determine Orderia 3 sea 3 Doss not Meet Citierts Z, so no result to determine Orderia 3	Not Subject to CAM Not Subject to CAM
The content of the	Daes not Meet Crissia 2, so no need to desamine Crises	104 3 Commet Meet Orderis 2 so no need to determine Cotteris 3	Net Subject to CAM
Property of the content of the con	Does not Meet Criteria 2, so no need to determine Criteria Does not Meet Criteria 2, so no need to determine Criteria		Not Subject to CAM Not Subject to CAM
Part	Ast and descriptions of a station of the state of the sta	Yes	Subject to CAM
Part	Yes	Yes Yest	Subject to CAM Subject to CAM
Part	Yes	Yes	Subject to CAM
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Second Control Seco	Yes	Yes	Subject to DAM
The content of the	Yes Yes	Yes Ves	Subject to CAM Oubject to CAM
Part	Yes	Yes	Subject to DAM
Column		ris 3 Does not Meet Criteria 2, to no need to delatritize Criteria 3	
Mathematical Math	Does not Meet Criteria 2, so no need to dejamite Cateria	rgs 3 Does not Weet Criteria 3, so no need to determine Criteria 3 rgs 3 Does not Meet Criteria 2, so no need to determine Criteria 3	Not Subject to DAM
Mary	Does not Meet Ortonia 2, so no need to stellermine Ceteria	rja 3 Dose pot Most Cetaris 2, so no noed to determine Criteria 3	
Mathematical Math		rga 2 Dose not Mart Criterio 2, 20 no naed to determine Criteria 3 rga 2 Dose not Mart, Criteria 3, 20 no naed to determine Criteria 3	Not Subject to CAM Not Subject to CAM
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Martin	Does not Meet Oriteria 2, so no need to determine Orderia Does not Meet Criteria 2, so no need to determine Orderia		Not Suspect to CAM
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March Marc	Does not Meet Criteria 2, so no need to determine Criteria	rija 3. – Oges not Neet Criteria 2, so po paed to determine Grideria 3	Not Subject to OAM
Part	Does not Meet Opteria 2, so no need to determine Opteria Does not Meet Opteria 3, so no need to determine Opteria	sija 3 Does not Meet Ontons 2, so eo noed to defenyaine Criteria 3 sija 3 Does not Meet Ontons 2, so eo need to defenyaine Criteria 3	Net Subject to CAM Net Subject to CAM
1	Desc not Meet Cateria 2, so no nossi to determine Crista	rda 3 Crary net Mart Ordaria 2, so po pared la determina Critaria 3	Net Subject to CAM
1.	Daes not Meet Cateria 2, so no need to determine Criteria Daes not Meet Cateria 2, so no need to determine Criteria	eta 3 Descript Meet Criteria 2, so no need to determine Criteria 3 eta 3 Descript Meet Criteria 2, so no need to determine Criteria 3	Not Subject to CAM Not Subject to CAM
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Martin		 page 3 Does not Meet Official 2, so no good to determine Orderta 3 page 3 Does not Meet Orderta 2, so no good to determine Orderta 3 	Hat Subject to CAM Not Subject to CAM
Second	Open not Heat Criteria 2, so no need to determine Orders		Not Subject to CAM
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Section Control Cont	Dess not Mart Criteria 2, so no nessi to determine Criteria	era 3 Does not Meet Criteria 2, so no speed to determine Criteria 3	Not Subject to CAH
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Mathematical Math	Dices not bleet Onleng 2, as an need to determine Onleng		Not Subject to CAM
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March Marc	Does not Meet Ordena 2, so so need to determine Ordena Does not Most Ordena 2, so so need to determine Ordena	eris 3 Does not Meet Conterns 2, so no send to determine Criteria 3 Pose not Meet Conterns 2, so no send to determine Criteria 3	Not Subject to CAM Not Subject to CAM
Part	¥99	Yes	Subject to CAM
1	Yes Yes	Yes Yau	Subject to DAM Subject to DAM
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Paris	You You	Yes Yes	Subject to CAM Subject to CAM
Part	Yes	Yes	Subject to CAN
Purple	Yez Yea	Yes Yes	Subject to CAM Subject to CAM
Regular Regu	Yes	Yas	Subject to CAN
Part	Yes Yes	. Yes	Subject to CAM Subject to CAM
Part	Yea	Yes	Subject to CAM
Part	Y93 Y93	Yes Yes	Subject to CAM Subject to CAM
Fig.	Yes	Yes	Subject to CAM
Part	Yes Yos	Yes Yes	Subject to CAM Subject to CAM
Figure F	Yes	Yes	Subject to CAM
Substitute Sub	Yes Yes	Yes Yes	Subject to CAM Subject to CAM
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P. S. Defects - Policies 1 Dill Fig. 1 Dill Fig. 1 Dill Fig. 2 Dill Fig. 3 Di	Does hat Mast Criteria 2, so no need to statembre Osteria	erfs 3 Does not Meet Offserts 2, so no need to disternine Offserts 3	Hat Subject to CAM
	Yes Stap NA Farmel from CAM place subject to goal 1991 NSPS at NE	Yes NESHAP NIA Everent from CAM stone subtant to past 1000 Mg/b as Allection	Subject to CAM P N/A Framut from CAM since subject to post 1990 NSPS or NESHA
Profile 6 C State 1 1 1 1 1 1 1 1 1			
### Predict of USAN			
PP-42 MI 10x591-22			
PP-42 201 10x15/4/23 (C110x15/4/23 (C110x15/4) (C110x15/4/23 (C110x15/4) (C110x15/4/23 (C110x15/4) (C110x15/4/23 (C110x15/4) (C110			
ET-TH OF LINE			
	HAP IN/A Taumpt Som CAM since subject to post 1990 NSPS or M	MESHAP NIA Except from CAM since subject to past GRO NSPS or NESHA	N/A Exempt from CAM since subject to post 1090 NSPS or NESH.
EF-64 Manifer Priling J SERSIAN SERSIAN PRILING AND A NA N	HAP N/A Exampt Som CAM since subject to post 1990 NSPS or N	NESHAP N/A Exempt from CAM stage subject to post 1998 NSPS or NESHA	2 MA Exemptifican CAM since subject to post 1990 NSPS or NESHi
512750 Baji Champage 19 40 201002312 0.12 6.5 27 0.05 42.63 Yes Yes Yes No	No No	No	Not Subject to CAM
1000372 2010 Converges 1000 1	No No	No Na	Not Select to CAM Not Select to CAM
5122350 Ball-Conveyure 50 Ball 50000512 0.12 4.5 21 0.05 42.53 Year Year Year No	No	Na	Not Subject to CAM
ECC1009 3021-Controller 59 40 30/002072 0,12 4.5 21 0,05 4,253 Yes Yes Yes No	No.	No No	Not Subject to CAM
同では Pelachtang(Life Menning ECC)(20 Settler Clarity) を	No No	tie No	Not Subject to CAM Not Subject to CAM
	No No	Ма	Net Subject to CAM
Fig. 4 Control of the	No No	Na No	Net Subject to CAM Not Subject to CAM
ECOLO 6-THE CONTROL CO	No	No	Not Subject to CAM
	No No	No No	Net Subject to CAM Rest Subject to CAM
SU2190 Printing Bull Conter 90 40 30300712 0.12 4.5 21 6.05 42.50 Yes Yes Yes Yes No.	No	No.	Net Subject to CAM
Ur 58 Phasey Craber (North) E0210 Viterilley Brees CD-68 16 10 98 40 3030312 0.12 PM 48 21 0.05 42.53 Yes Yes Yes Yes No No	No No	No No	Not Subject to CAM Not Subject to CAM
E1272/5 September 90 40 3050372 0.12 4.5 21 0.05 42.53 Year Year Yake No	No No	No No	Hot Subject to CAM
EU7110 Viber/log Feater 99 40 2000/23/12 0.12	Na	No.	Hot Subject to CAM

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						Efficie Perp	:saf 333			Spreite Peites	ant Uncontrolled Pi	TP Cheestalled PT	E Cagrelled PTE	Calculated PM	Controlly II "Yes", the unit i		<u>`</u>				
Enriches	eri Milan Iv.	Enderion Call	ii Emission Vait Description			End Capture Conspir Effetency P	ce with the Updated MIIDI		Factor Source of Epd. (listen) Emission For	uted Updated Englisher Factor	by Bured on Updat. ar MIJIDR BAT	Mater	M(Birk (BiAs)	on Updated MHDE	i labrantly in consplicace with the PWH.	I comed ante with th	e Boes the Valt Meet CAM Orsteria St (volgeet to en emission Units)	Dans the Unit meet CAM Criteria #2 (use a rentral device to meet		Is excentralled FTE greater than Major Sevice threshold (1994)py M "Yes", Endwise Potal treets CAM Oritons 3.	Fe this East Subject to CAM ?
rom to	Controlog Polist Danschptfoh	RU2240	Vibrating Feedor	Cantrol Device 1B	Description 1	Efficiency P		1/pdsted SCC 30300312		lar Facial	4,6	(195) 21		42.83		Yes.	You	Undi))? No	Bershke Unit mert CAN Criteria #3 (upcontended PIE > 100 (py)?	No	Not Subject to GAM
		HU2250 HU2268	Taterials (stated) Batt Recognist Pages					30300312				21			Yes	Yes	Yes Yes	No No	Na Na	No No	Not Subject to GAM Not Subject to CAM
		KU2270	Stational Submitted				40	30340312 30300312			4,8	21		42.53		Yes Yes	Yes	No No	No No	No No	Net Subject to CAM
EP-69 P	rimary Cruther (South)	E12286	Belt Conveyor tioner (Auguston	ct-ex	18		40	34360312 34300312	0.12	PM	4.8	21	0.05	42,63	Yes	Yes Yes	Yes	No No	No No	No No	Hot Subject to CAM Not Subject to CAM
		RU2300	Vibrating Funder					30300312				21	9.95 9.95	42.53 42,63	Yes	Yes	Yes	No No	No No	No Ho	Net Subject to CAM
-		51/25/p 51/25/p	Vibrating Femilier Ball Mid					30300312 30300312	6.12 6.12		4,8	21	9.95 9.95		Yes	Yas	Yas	No No	Na .	No No	Hot Subject to CAM Hot Subject to CAM
PP.20		E172330	Terring Hutta Courbor	CD-76		-	40		8.12		4,8	21	9.95	42,63	Yes	Yes	Yes Yes	No No	Na No	No No	Not Subject to CAM
Fr. 11	ferfing Coulter	RU2ND RU2ND	Stacket Richard	cp./a	18	107	-40	3/3800312	9.12	PM	4,8	21 21	Q 05	42,53	Yes	Yes	Yes	No No	Na Na	No In-	Net Subject to CAM
		EU2400	Vibraling Fester Bucket Blooker	<u> </u>	+		40	3/380312	B. 12		4,8		0,85	42.53 42.53	Yes Yes	Yes Yes	Yes Yes	No No	No No	No No	Not Subject to CAM Not Subject to CAM
		EU2410 EU2460	Backet Florer o				41				4.8	21	0,95	42.53	Yes	Yes	Yes	Ma No	No.	No No	Not Subject to CAM
		EU2450	Server Contraper Server Contraper				40	30300312	9,12 cut-trail = 0.0 0.12 fe/top. The	1	4.8	31	0.05	42.53 42.63	Ant	Yes Yas	Yes Yes	No No	No.	No No	Net Subject to CAH Not Subject to CAh
1 1		EU2470 EU2560	Acres Conseper Vibrators Feeder				40	39390912	0.12 fe/for. The insconticities 0.12 entit item fect 9.12 was calculated.	d 101	4.8 4.8	21	0,65	42.53 42.53	Yes Yes	Yaş Yes	Yes Yes	No No	No No	No No	Not Subject to CAM Not Subject to CAM
		HIDAN	Vibratory Fundar				40	3839312	0.12 backing out to	the	4.8	21	0.05	42,53	Yes	Yes	Yes	Ro	No	No	Not Subject to CAM
		E117640 E117660	Vibratory Feeder Vibratory Feeder				40	30309312	D,12 Didones AD	1.42	4.8	21	0.05	42.53 42.53	Yes	Yes	Yes Yas	No No	74c	No No	Not Subject to CANI Not Subject to CANI
		617360	Vibratory Fooder	1					0,12 (000) Appen 0,12 B, Table B.2 0,Centrol Dev		4.8	31	0.05	42,63	Yes	Yes	Yes	No	No.	No	Not Surrough to CAM
EC-71	Anode Parte Production	8112570 6112580	Vibratory Youder Vibratory Fooder	Cb-71	18	HOD-		38309312	0.12 Creston Lev 078 Emcercy trubbple syd:	cfor PM	4.9	21	0.05	42.53 42.53	Yes	Yes	Yes	No No	Ha Ha	No No	Not Settlect to CAM Not Settlect to CAM
		HIIJANG	Vihrel-ty Fooder	1			40	30300312	0.12 highestily as	sh L	4.5	21	0.05	42.53	Yes	Yes	Yes	No	No No	No	Not Subject to CAM
1 1		E113940	Secret Crateger Server Crateger				40°	30309342	0.12 reinjection = 0 (condervet) 0.12 estimate since	10	4.5	21	0.05	42.63 42.53	Yes Yes	Yes Yes	Yes Yes	No No	No No	No No	Not Subject to CAM Not Subject to CAM
		a-re617581.0	Secret Contessor	1			40	38900312	0.12 control is		4.B	21	0.05	42.63	Yes	Yes	Yes	No	No	No	Not Subject to CAM
		new -8175020 new -8175030	Sacon Conveyor					30300312 30300312	0,12 provided for F	MJ.	4.E	21	0.05	42.63 42.63	Yes Yes	Yes Yes	Yas Yas	No No	No No	No No	Net Subject to CAM Net Subject to CAM
		new -8175890	Vihedary Fusier	1			40	30309312	0.12 42 explantes fa	pr-	4.5	21	6.05	42.53	Yau	Yeq	Yes	No No	Ha "	No.	Nat Subject to CAM
		new -6175950 new -6175960	Vihralrey Fooder Megaelic Separator	-					0.12 = 0.006/,05 = 1 0.12 te PM/ten.	V.12	4.E	21	9.05 9.05	42.53 42.53	Yes -	Yas Yas	Yes Yes	No No	. No	Ha	Rati Subject to CAM Not Subject to CAM
		E1/2600	Act Collbor		1		40	30308312	0.12		4.6	21	0.05	42.63	Yss	Yea	Yes	No No	Na Na	No.	Not Subject to CAM
		EU2480	Blacket Blooster Scenik Contropies	'			40	30309312 30309312	0.12	İ	4.6	21	9.05	42.53 42.53	Yeq Yea	Yes Yes	Yes Yes	No No	No No	No No	Not Subject to CAM Not Subject to CAM
		EU2480	Retary Vane Freder	1			40	30000312	0.12		4.6	21	0.05	42.53	Yrq	Yes	Yes	No No	No.	No	Not Subject to CAM
		EU2500 EU2500	Retury Vane Fooder Retury Vane Fooder				9 40	30308312	0.12		4.6	21	9.05	42.53	Y89 Y44	Yes Yes	Yes Yes	No No	No No	No No	Net Subject to CAM Net Subject to CAM
HP-72	Agode Paris Producties	EU2520	Rolary Vans Fooder	100-72	18	100	40	30306112	0.12	PLI	4.6	21	9.05	42.53	Yes	Yes	Yes	No No	No	No	Net Subject to GAM
		EU2800 EU2890	Kelary Vane Pauder Screek Foeder	-			40	30300312	0.12		4,6	21	8.05	42.53 42.53	Yes	Yes Yes	Yes Yes	Na Na	No No	No No	Net Subject to GAM Not Subject to GAM
		81/2340	Serve Fueder				40	30309312	0.12		4,6	21	9.05	42.53	Yes	Yes	Yes	Na Na	Na	No	Net Subject to CAM
		5U3290 new -2U9070	Tromp iron Separator	}			10	30300312	0.12		4.8	21	9.05	42.93 42.53	Ved Ved	Yes	Yes Yes	No No	Na Na	No No	Not Subject to CAM Not Subject to CAM
		613660	Vilnalory Feeder				+3	30300312	0.82		4.5	21	9.06	42.63	Yes	Yea	Yes	Na	No	No.	Nel Subject to DAM
		51/3890	Vibratory Feeder Vibratory Feeder				10	30300312	0.42 0.12		4.8	21	9.05	42.53 42.53	Yes Yes	Yea	Yes Yes	No No	Na Na	No No	Not Subject to CAM Not Subject to CAM
8P-73	Anade Faste Production	51/3559 51/3180	Vibraicry Feeder	GO-73	18	102		30380312	0.12	P34	4.5	21	0.06	42.53	Yes	Yes	Yes	Ир	Na Na	No No	Not Subject to GAM
		B1/3110	Conveyor / Backet Eferator Paris Mixer				1 +0 1 +0	30380312 30380312	0.12 0.12		4.8	21	0.06 0.06	42.53 42.53	Yes Yes	Yes Yes	Y49 Y43	No No	Na Na	No No	Not Subject to CAM Not Subject to CAM
		E13120	Bit Consycr Apres Consym				40	30390312 30390312	0.12 0.12		4.8	21	0.05 0.05	42.53 42.53	Yee Yes	Yea Yea	Yas Yas	85	Na Na	No No	Not Subject to CAM Not Subject to CAM
		61/3140	Screw Conveyor				1 40	30380312	0.12	 	4.8	21	0.05	42.53	Y64	Yes	Y49	No.	No No	No.	Not Subject to CAM
		BU3150 BU3160	Sown Conseptr Sown Conseptr				1 +0	30390312. 30390312.	0.12 0.12		4.8	21	0.05 0.05	42.53 42.53	Yes Yes	Yes	Yes Yes	Ke Na	No Na	No.	Not Subject to CAM Not Subject to CAM
		EU3170	Since Conveyor				+0	30380312	0.12		4.6	21	0.65	42.53	Yes	Yes	Yaq	No	Na	eк	Not Bubjest to CAM
EP-74	Assade Faste Producting	EU3180	Strew Conveyor Strew Conveyor	CD-74	18		10 +0	30390312	0.12 0.12	PIA	4.8	21	8.05 0.05	42.63 42.53	Yes. Yes	Yes Yes	Yes Yes	No No	Na Na	No No	Not Subject to GAM Not Subject to GAM
		EU3200	Screw Conveyor				1 +0	30380312	0.12		4.8	21	0.05	42.63	Yas	Yas	Yes	No	No No	No.	Not Subject to CAM
		EU3230	Seren Carreyar Seren Carreyar				40 40	30380312 30380312	0.12 0.12		4.8	21	0.05	42.53 42.53	Yes	Yes Yes	Yes Yes	Ho No	No No	No No	Not Subject to DAM Not Subject to DAM
	incde Cleaning System	E1/3629	Aneds Elevning Station	CD-79		10e	- 49	30380312	0.4z	FH	4.8	21	9.05	42.53	Yes	Yes	Yes	No	Na	No	Not Subject to DAM
66-80 E	resh Ore Handling Ferh Ore Handling	EL0830 EL73640	Ale-Flast Conveyor Ale-Flast Conveyor	GD-80 GD-81	18		1 - 49	30390091 30380091	a FIRE	PH PH	240 240	1851	2.40		Ns No	Yes	Yes Yes	No, beginsuse is inherent to the pneumatic process No, beginsuse is inherent to the pneumatic process	Does not Meet Onteria 2, so no need to determine Onteria 3 Does not Meet Onteria 2, so no need to determine Onterio 3	Does not Meet Onterio 2, so no peed to determine Ontero 3 Does not Meet Onterio 2, so no peed to determine Ontero 3	Not Strippert to DAM Not Strippert to DAM
	node Sun Cleaning (Phare I)	EU3450	Stub and Rad Cleaner	CD-82	18	108	1	30380312	0.12	PM	0.12	1 1	4.00	4.19	Yes	Yes	Yes	No	No	No	Not Stroped to DAM
	Cathodo Carting Station Anodo Stem Cicaning	EU0670	Collector Bar Cleaner Rod and Stob Cleaner	<0.63 cp.84	18		1 1	303903f2 303903f2	0.12 Sea note EP.	79. FIL	0.12 0.12	1				Yest Yes	Yes Yes	No No	No No	No No	Not Subject to CAM Not Subject to CAM
		EL73760	Roll Conveyor (corbon bake)		T	6						 	T	T	T	Yes	16A Exempt from DAM since subject to post 1990 NSPS or NESHAP	P Yes	Yes	Yes	N/A Exercet from CAM store subject to post 1990 NSPS or NESHAP
		£09770	Roll Conteyor (carbon bake)			L	97					1				Yes	N/A Exempt from CAM since subject to post 1990 NSPS or NESWAR	+	Ma	No	N/A Exempt from CAM stace subject to post 1990 NSPS or NESHAP
		BLP97NO	Rull Conveyor (earlies bake)	1		8-						1	i			Yes	N/A Exempt from OAM since subject to past 1990 NSPS or NESHAP	No No	No	No	N/A Exempt from CAM stace subject to post 1890 NSPS or NESHAP
		EL/3790	Rall Conveyor (certain bake)			В	at .					1		1		Yes	N/A Examplifican DAM since subject to post 1990 MSPS of NESHAP	P Na	No	Na	N/A Stompt from GAM stops subject to post 1990 MSPS or NESHAP
		EU3860	Raller Field Conveyer (curbon bake)			ŧ	77				1					Yes	N/A Exempt from CAH since subject to post 1990 NSPS or NESHAP	No No	No	Na	N/A Examplifrom GAL/ since subject to post 1999 NSPS or NESHAP
		Hillanto	Hell Conveyor (carbon balks)			8	57					1		1		Y42	N/A Exempt from CAM since subject to post 1990 NSPS or NESHAP	No No	No	Na	NIA Exempt from CAM aloca subject to post 1999 NSPS or NESHAP
		E133420	Belt Conveyor (captum bulge)			8-	37				1		1	1		Yes	NA Exampt from CAM since subject to post 1990 MSPS of NESHAP	P No	No	No	N/A Examplifium CAN white subject to post 1990 NSPS or NESSAP
		ELD400	Power Ref. Conseyor (earbox bake)			ē.	17					1				Yes	N/A Exempt from CAH since aut; aut to post 1980 NSFS or NESHAP	No No	16a	Na	N/A Examplifrom DAM slace subject to post 1998 NSPS of NESHAP
		Birmio	Prop of Anti Crossoyor (sartism bake)			6	s7					,		1		Yes	N/A Exerct from CAM since subject to post 1900 MSPS or NESHAP	 	No	Dita	N/A Examplifican CAM since subject to post 1999 NSPS or NSSHAP
		Sime	Power Bult Conveyor (cetting hoke)			В	<i>ा</i>					1				Yes	N/A Exempt from CAM since subject to post 1990 MSPS or NESHAP	No No	No	No	M/A Examptison CANT since subject to post 1996 NSPS or NESHAP
		E00860	Fower Rell Conveyor (earthur bake)			В	57									Yes	NA Exemption CAM since subject to post 1990 NSPS or NESHAP	P No	No	Ke	N/A Exempt from CAM since abbject to post 1990 NSPS of NESHAP
		EU3870	Fra er Noël Consuyer (narben bake)			6	s7									Yes	N/A Exemptimen DAM since subject to post 1990 NSPS or NESHAP	P No	No	No	N/A Exempt from CAN since subject to post 1990 NSPS or NESHAS
E6-88 G	Burbon Rake (Stacks (S4 Ges))	P, LTHalso	Propert Red Chapteyer (emphasis holes)	CD-8d (4 tcfubbata)	071	100 8	B7 50.4	30300105	3 FEREJAP-4	12 PM	31.20	107	4,78	18,69	Na	Yes	N/A Examplifrom CAM since subject to post 1990 NSPS or NESHAP	P Na	No	No	N/A Examptifrom DAM since subject to post 1990 NSPS or NESHAP
		ELIBBS2	Purher (carbon bake)			В	57									Yes	NA Exemptinon CAM sinte subject to post 1990 NSPS or NESHAP	P No	Na	No	N/A Exempt from CAM since subject to post 1990 NSPS or NESHAP
		E1 00000	Free Canseyar			6	97					[Yes	N/A Exemptifrom CAM since subject to post 1990 NSP5 or NESHAP	P No	No.	Ne	N/A Exempt from CAM since subject to post 1990 NSPS or NESHAP
		203000		1	1	В	B7									Yes	N/A Exempt from CAU since subject to post 1991 NSPS or NESHAP	P No	No	No	N/A Exemptifrom CARI since subject to post 1990 NSPS or NESHAP
		Eriano	Seres Contagor				888								1	Yar	NA Exercit Forn CAM core subject to post 1880 NSPS or NESHAP	P No	Mo	No	N/A Examplifrom CAM stace subject to good 1990 NSPS or NESHAP
		ETHATA	Server Conteyor Conveyor, Chale Drive (carbon bake)			В	57			1	1	l l	1		1	Yas	ri/A Exampt from CAM alnow subject to post 1990 NSPS or NESHAR	P No			
		\$17940 \$17920 \$17920				B 9	888				1	1	1					1	No.	No.	N/A Examplificon CAM store subject to post 1990 NSPS or NESHAP
		ELFRACO ELFRACO ELFRACO ELFRACO	Conseyus, Chais Drive (carbon bake)				57									Yes	AM Exemptifiem CAM since subject to post 1990 NSPS or NESHAP		No No	He No	N/A Examplifrom CAM since subject to post 1990 NSPS or NESHAP N/A Examplifrom CAM since subject to post 1990 NSP'S or NESHAP
		517940 EU9920 EU9920 S17940 EU9950	Conveyor, Chain Drive (carbon bake) Conveyor, Chain Drive (carbon bake)			9	57 57									Yes Yex	N/A Exempt from CAttletings subject to post 1990 NSPS or NESHAP N/A Exempt from CAttleting subject to post 1990 NSPS or NESHAP	p Na	<u> </u>	"	
		803830 813940	Consegue, Chole Drive (usebus bake) Consegue, Chole Drive (usebus bake) Verbud Reckpronstant Lift (usebus bake)			9 8 8	57 57											P Na P Na	No	No.	N/A Exemptifrom CAM since subject to post 1960 NSPS or NESHAP
		803830 813940	Contropus, Chales Debus (asabus bake) Contropus, Chales Debus (asabus bake) Verbis d Needgewe ating Lift (wurbon bake) Alsohisterid Menifield			9 8 8	តវ ស ស ស									Yez	N/A Exemplifrem CARS since subject to post 1966 NSPS or NESS-tar	P Na Na	No No	No No	N/A Exemptifrom CAM since adaptot to post 1960 NSPS or NESHAP N/A Exemptifrom CAM since subject to post 1960 NSPS or NESHAP
		803830 813940	Conveyor, Choke Drive (urbor bake) Casaryor, Choke Drive (urbor bake) Verbied Redgeve sina Lift (urbor bake) Adolisteri) Marildd Gener Marildd (urbor bake)			9 8 8	57 52 53 53 54 53									Yaz Yas	N/A Exempt from CAM stone subject to post 1999 NSPS or NESHAS SVA Exempt from CAM stone subject to post 1999 NSPS or NESHAS	P No No No No No No No No No No No No No	Na No No	No No No	NJA Exempt from CAM since a played to goot 1990 NSP:3 or NESHAP NJA Exempt from CAM since subject to goot 1990 NSP:3 or NESHAP NJA Exempt from CAM since subject to goot 1990 NSP:3 or NESHAP
		EU3920 S13949 EU3950 EU3950 EU3970	Conveyor, Choke Drive (crobus hoke) Crassyor, Choke Drive (cretice hoke) Verbied Rechere stime Lift (crobine boke) Analysisterial Marshad General Marshad Gene			9 8 8 9	57 52 53 53 54 53									Yax Yas Yas	NA Exempt from CAM since subject to post 1969 NSPS or NESHAR 50A Exempt from CAM since subject to post 1969 NSPS or NESHAR NA Exempt from CAM since subject to post 1960 NSPS or NESHAR	P Na Na Na Na Na Na Na Na Na Na Na Na Na	No No No	No No No	NIA Exemplision CAM since a sepect to post 1990 NSP til or NEGHAP NIA Exemplision CAM allow a steject to post 1990 NSP til or NEGHAP NIA Exemplision CAM allow a steject to post 1990 NSP til or NEGHAP NIA Exemplision CAM allow a steject to post 1990 NSP til or NEGHAP NIA Exemplision CAM since a steject to post 1990 NSP til or NEGHAP
		EU3920 S13949 EU3950 EU3950 EU3970	Conveyor, Cholin Driva (continue bake) Conveyor, Cholin Driva (continue bake) Viginis Rivelpreviation Life (continue bake) Alan Sateria Manifolds Gradien bake) Guenner Matellifat (continue bake) Guenner Matellifat (continue bake) Guenner Matellifat (continue bake)			9 8 8 9	हरी का का का का का का									Yax Yaa Yaa Yax	NVA, Exemplifying CABU sicce studged to good 1969 (NSFG or NEERMAN 2004 Exemplifying CABU sicce studged to good 1990 (NSFG or NEERMAN 1004 Exemplifying CABU sicce studged to good 1990 (NSFG or NEERMAN 1004 Exemplifying CABU sicce studged to good 1900 (NSFG or NEERMAN 1004 Exemplifying CABU sicce studged to good 1900 (NSFG or NEERMAN 1004)	P No No No No No No No No No No No No No	Na Na No Na	No No No No	NAM Exempt from CAM since a subject to post 1 690 KSIP's or MEDITAL NAM Exempt from CAM alone subject to post 1690 NSIPA or NESHAP NAM Exempt from CAM alone subject to post 1690 NSIPA or NESHAP NAM Exempt from CAM alone subject to post 1690 NSIPA or NESHAP NAM Exempt from CAM alone subject to post 1690 NSIPA or NESHAP NAM Exempt from CAM alone subject to post 1690 NSIPA or NESHAP

At agreeded 7 Metals Title V Operating Point Renewal Applicati

T-BEAL		NIA Frempt from CAM place subject to post 1960 NSPS or NESHAP	NA Exempt from CAM since subject to past 1990 NSP 3 or NEGSTAP	MA Example from CAM alone subject to post 1889 HSPS or NESTAP MA Example from CAM alone subject to post 1899 NSPS or NESTAP	MA Exempt from CRM strees stabject to pract 1999 NSPS of NESPUR	WA Exempt from GAM strass subject to post 1900 NSPS or NESHAP	NA Competitions OAL since activact to post 1994 NSPS or NEGRAP	TWA Exertat from DAM since studied to good 1999 NSPS or NESHAP	MAR Exercist from GAM since subject to post 1990 NSPS or NESTAAP MAR Exercist from CAM come subject to post 1990 NSPS or NESTAAP	MA Extense from DAM some subject to past 1999 NSPS or NESHAP	MA Exempt from CAM alnes subject to post 1990 NSPS or NESHAP	WA Exempt from OAM since subject to past 1900 NSPS or NESHAP	NA Exempt from CAM stress subject to prest 1990 HSPS or NESHAP	MA Exempt from CAM since subject to post 1900 NSPS or NEGHAP	NA Exempt team CAM alone subject to past 1990 NSPS of NESHAP	NA Exempt from GAS since subject to post 1950 NEPS or NESHAP	N/A Exempt from CAM since subject to post 1890 NSDS or NESHAP	MA Exempt from CAM vince subject to post 1890 MSPS or NESHAP	MA Exerpt from GAM since subject to post 1996 NFPS or NESTAP		MA Exemptition, CAM since subject to post 1999 NSPS or NESHAP	NA Grenyl fam CAM mes subject to post 1988 NSPS or NEAMP	MA Exemptions CAM since subject to post 1990 NSPS on NESHAR	NA Exemplators Coop and a subject to past time Asia of Coopers NA Exemplators Cold when a subject to past 1880 N9PM or NESHAD	MA Exempt from GAM since subject to prest 1990 NSPS or NESHAP	N/A Exemptition GAM since subject to post 1990 NSPS or NESHAP	NA Exempt from CAM since subject to post 1880 NSPS or NESHAP	NA Examply from CAM since analysed to post 1950 NBCS or NESMAP NA Examply from CAM since stelled to cost 1959 NBCS or NESMAP	N/A Everyal from CAM since subject to post 1890 NSPE or NESALAP	N.A. Exempt from Oald since subject to post 1980 NSPB or HESTAP	NA Exampt from CAM stree subject to post 1999 NSP3 or NESHAP	NA Everyal Perio Casy styres analysed to prost 1890 NSPS or NESSEAND (OA Exeryal Perio Cash) stores to be seen	MA Evengs from Chit since subject to post 1990 NSPS or NESHAP	WA Everyof from DAM store subject to part 1999 NSPS or NESHAO	WA Stampt from OAM some subject to post 1990 NSPS or NESHAP WA Streams from DBM since subject to post 1990 NSPS or NESHAP	WA Exempt from DAM styre subject to part 1990 NSPS or NESHAR	MA Exempt from CAM stock subject to post 1890 NSPS or MESHAP	NA Exempt from DAM stock subject to past 1990 NSPS of NESHAP	188A Estampli from CARA since quebact to pert 1000 Nation or North Per MAN Manual from CARA since analysis for near 1980 Matter a pertangent	NA Exampt from CAM alree subject to post 1960 NSP 5 or NEEHAP	NA Everyptions CAM since subject to past 1970 NSPS or NESHAP	MA Exempt from CAM alreadubled to pool 1860 NSFS or NESHAP	NA Exampt from CAM sinse subject to post 1890 NSPB or NESRAP	N/A Examplifican CAM almos subject to post 1990 NGPS or NESHAP N/A Examplifican CAM almos subject to most label NRBS or NESHAP		10/A Exemptifron: OAM aimse aubjectio post 1998 NSPS of NEGHAP	N/A Examptifrom CAM stock subject to post 1006 NSPS or NESHAP	NAM Experge from DAM since authors to prost 1988 NSPS or NESHAP	AVA Exempt from CAM states subject to next 1998 NSPS on NESHAP NA Frommit from CAM states subject to seet 1990 NSPS on NESHAP	WAY Exempt from OAM above auticat to past 1990 NSPS or NESSAN	NA Exemption CAM siece adjects post 1990 NSPS of NESHAP	NIA Exemptinan CAM stace subject to post 1990 NSP8 or NESHAP	NVA Evernatifican CAMI spice subject to past 1990 NSPS or NESHAP	NA Examplifiers CAM store abject to past 1890 NSP3 or NESHAP NA Framplifier EAM shore subject to east 1880 NSP5 or NESHAP	N/A Everypt/from CAM stree analyed to port 1850 NSPS or NESPARP	N/A Exempt from CAM entre subject to post 1980 NSPS of NESHQP	N.A. Exempt from GAM since subject to post 1960 NSP8 or NRSKAP
h shousefuld FF greater for 3-legs forms in chand (if thy)?	Yes	145	Ho	N E	No	Νο	Arb	aN.	2 2	eN.	망	2	문	\$	No.	No	No ,	No	See .	Z.	No	Ro	No	2 2	2	Na	No.	오 2	Yeş	N.	₽ :	CX SX	. Ho	No.	No.	gy.	No	£ .	ON THE	P.	ęχ	No	문 :	eX 22	Na	. ax	200	Na	Ne Ne	\$	Ne	22	£	2 2	£	운	운
	Yes	Ма	Na	- S	S. S.	λħ	We	Ph.	2 1	£ £	무	2 :	- Ha	- 3	740	MG	No	£	₹ :	No.	Жо	ů.	700	N N	2	Ма	2	운 문	Y49	No	Na :	No.	No	Na	No.	2	Ne	Ne	200	Ma	22	25	물 :	2 2	Ha	Mo	25	Na	£ £	149	Na	Pła	Na Na	운 호	ž	æ	Ho
Dearlike Dilli beste CAM Chilade & Rese commend dester as read		ž	No	2 2	22	No.	He	Hs	No.	2	Ma	£ ;	X5	Ne Ne	92 3	No	No	χo	2 :	2 2	No	2	22	2 2	2	Na	S. S.	Z 22	Yes	Me	Ne :	NS NS	2	24	92 1	2 2	No	문	No.	2 2	Na	£		2 2	2	No	e N	2	2 2		Ho	ለታ	No	92 52	οN	å	No
	NA Exempt from CAM since program to post 1860 NSPS or NESHAP	A Exempt from DAM store subject to post 1997 NSP3 or NESHAP	NA Evergethon DAM since subject to post 1880 NSP5 or NESHAP	NA Exemption Call since subject to part 1950, 45PS or NSSHAP NA Exemption Call since subject to east 1990 NSS of NSSHAP	MA Exempt from DaM store subject to post 1990 MSP5 or NESHAP	A Evernor from CAM whose pulpare to post 1990 NSPS or NESHAP	A Exemption City stree subject a past 1980 NSPS of MESHAP	WA Evengthorn Cald lakes subject to post 1990 KISPS or NESHAP	(A Everyoffrom CAM etics subject to pook 1650 NSPS or NESHAP	M/A Exempt from CAM where a ubject to post 1999 XXP9 or MESHAP	N/A Exemptifrom CAN since subject to post 1990 (NSPS or NESHAR)	N/A Examplifium Chilf aline subject to your 1990 NRPS or NESHAP	A Exemptificam CARL error subject to post 1900 NSPS or NESHAP	A Frampfform CAM since subject to year 1999 NSPS or MESHAP	20/A Example from CAM where subject to past 1990 NSP5 or NESHARP	NA Esempliform CAM some subject to year 1990 NSPS or NESASD	WA Exempt from CAM since publiest to past 1890 MSPB or NESHAP	NA Exemplifican CAM ance a ubject to post 1699 NSPs or NESHAPP	A Exempt from CAM source subject to peer 1990 NSPS or NESMAP	A Example from CAM and adopt to pear 1990 NSTS or NESTAP	N/A Ecomptifican CAM vince subject to prost 1990 NSP3 or NESHAP	NA Exemplifican GAM when subject to peat (690 NSPS or NESHAP	N/A Example from Card alone surject to post 1900 NSPB on NESTHAP	NA Exemple from DAM since subsect to past, used Napa at installand.	A Exerciption GAM Lines subject to post 1950 NSP5 or NESHAP	N/A Examplifican CAM since subject to pact 1800 NSPB or NEBHAP	N.A. Exempt from DAM since subject to post 1860 NSPS or NESHAP	NIA Exertact from CAM strate subject to post 1990 NSP 5 or NESHAP NIA Featured from EAM strate subject to each 1990 NSP 5 or NESHAP	UA Eseraptivain GAM since subject to post 1980 NSP 8 of NESHAP	'A Examptition CAM alnos subject to post 1990 AIRPs or NESHAR	44 Ecompt from CAM since subject to past 1690 NSPS or NESHAP	WA Estempt from CAM nines subject to your 1999 NSP3 or NESHAP WA Essempt from CAM nines subject to post 1990 A 99 S or NESHAP	MA Exempt from GAM etime subject to post 1999 NSPS or NESHAD	MA Exempt from CAM since subject to year 1998 NSPS or KESHAP	NIA Exampliform DAM place subject to post 1790 NSP'S or NESHAP NIA Example from CALL since make also seek state or sections.	MA Exampliform CAM sizes subject to post 1990 NSP9 or MEBHAP	MA Exemptitions CAM since subject to post 1998 NSPS or NESHAP	NA Exempt from CAM over exhibit to post 1998 NBPS on NESHAR	MA Exampliform CAM water ambject to your 1998 milesticity. MAR Broom from CAM scale and address of the second scale of the sec	NA Exemption Cald also safety to part 1000 NS-6 or MESHAP	I'A Examptifices CAM sages subject to past 1986 NSPS or NESHAD	NA Exercit from GAM obers orbiped to post 1990 MBPS or MESHAP	IA Exemption CAM seca subject to post 1990 NoPis or NESHAP	N/A Rivergel from CAM states subject to past 1990 NAPA or NESHAP. N/A Reverse from CAM states extend from 1995 and 1995 And 1995.	NA Exemption DAM store subject to post 1900 NSPS or NESHAP	(A Examp) from CA41 where subject to post 1990 NSP3 or NESHAP	N.A. Exerge) from C.A.V. stores subject to post 1990 NBPS or HESHAP	NA Exercition DAM stock subject to post 1990 NSPS or MESHARP	I/A Exercyl from CAM steen subject to post 1880 NAPPS or NEGRIAP A. Commod from CAM steen subject to exercit 1860 NAPPS or NETSMAP	NA Exemption Deld stock suggest to post topo NSPS or MESTAR	N/A Exempt from GAM shore segrect to post 1860 NSPS or NESHAP	N/A Evenys from DAM alone subject to post 1960 NSPS or NESHAP	N/A Exemplifican CRAL since subject to post 1992 NSPS of MESHAP	W/M. Exemplifrom CAM since authors to post 1987 NSPS or NESHAP N/M. Exemplifrom CAM since actived in most 1980 NSPS or NESHAP	NA Exemption CAM since subject to post 1990 NSPS of NSSHAP	N/A Exemplifrom DMM since subject to post 1990 MSP5 or MESHAP	N/A Examplifrom CIAN white subject to post step increased the
F. PWR EM Control (March 1997) S. PWR EM CONTROL (March 1997) March 1997) March 1997 March 1	, se ,		746	tru).	Yes		1	Ven						ee),						**		ř.	2/	501	, s	ja ,	201.	, , , , , , , , , , , , , , , , , , ,		ш		14) 04)		Yes	200		144	w θ /	Yar	r r r	Yek		6 60 22 55 No Yes	39.	*	yes	You	\$ 7.	Year Year	6.	768	, Joseph		3		Year	1,000
Septility Characteristics (Septility Characteristics) (Sep										ahhanid					PGREJAP.42 PN: 31.20 137		1																					****					FIRE/AP-42 PM 36.40 163														
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prompting stades specificates Superposit Limited Limited Limited Limited		2738	66.33	26.23 20.23	EC 98	14.05	48.33 48.33	62.29	26.33 26.33	86.38	46.33	46.35	46,33		4 octubrato) 971 (500 38.35	48.53	86.38	16.64	8833	1000	SCHO	0.000	4643	72 00	F.C. 63	66,64	E000	69.33	77.6	77.0	12.0	8.K	87.	B/24	130	822	77.6	1 K	8.77	2 2 2	8'5'		(4 serubbars) 671 (58 77.6	77,8	77.0	77.8	77.5	27.6	77,8	77.0	77.8	77.8	77.8	7,38	7.8	77.8	77.0
positives that	idi () Crafejvan (enfembale)	(000 Contrainer (padem bake)	030 Conveyor (corb.m batts)	BURGOS Conveyors (earliest bake) RUSOSO Convenient (earliest bake)	Con			BUR080 Conveyor (codes)		-		FILES AND STORES CONTRACTOR (See the Contractor)	1160 Conveyor, Chain Dilect. (carbon bake)	Ť	BURGES Commyser, Chain Drives (surbers baker) GD-PR (Τ			HH270 Conteyer, Caris Deleta (curica hels)	T		BU270 Cummyry, Duth Drive (earlinn bulks)						0340 Burner, Mendfold, (carbon bake) 0350 Burner, Mendfold, Contour bake)				EULEMO Prover Roal Conveyor (c. phose boke) EVA ET PROVER ROAL CONVEYOR (carbon bale)			E19430 Roller Curveyer (caden lake) Hitlatic Reference caden lake)				ELISTED CLANGE (arthor) MAG) FILERER		(HUSS) 9 Server Company (ember) halts)			814540 Conveyor, Chala Driven (carbon bale) 814550 Conveyor, Chala Driven (carbon bale)				BLASS Conveyor, Oak Driver (carbon b.D.)			Cauvey			GURSON Burner Merchind (critical bits) H14670 Runer Merchind Gertem hits)			8U-9700 Surver March (certain bile)
£	<u> </u>	<u> </u>	20		13	1 2	1.盖1	<u> </u>	26.]	LŽ	[章]	DE	1.8		Curken Bake 1. Studen (S4 table) (BODA)		100			158		58	# L 1		1 10	Läl	L	198	NB B	<u>[章]</u>	# 1.i	2 2	1 8 1	3 <u>8</u>	aj i			- 第]	2 L 2	.l.ā.			AA Carbon Bake 3 Mark		Lā	T.	200		3 1 2	1 50	ENERGY TO SERVE		203	<u>g </u>	hna.	***************************************	nai -

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Emfode		Emiliates Unit			Costrol Bayle	re Catalyze	Evaluating Compilators with	Undered SSCOR.		Updated Resister	Source of Updated	Represented by Codesied Emission	Based on Updated Milliolit	Based on Update: MBDR	d Based on Updates MUDR	PWR Limit Based on literated	inherently to	leberently in compliance with a		Bots the Unit must CAM Critists #2 fur a control device to med		Is necessivelised PTE greater than Major Source threshold (199 tp)	
	D Emission Frint Description	ID.	Emission Unit Description	Control Device ID	Description			(lpb)	Updated SCC	(IbToo)	Emitden Factor	Factor	(lb/br)	(199)	(lb1r)	Milita	the PWR.	rompliance with the	Beer the Unit Mari CAM Critaria VI (subject to an emission (imit))	**************************************	Does the Unit meet CAM Criteria #3 (uncontrolled PTE > 194 tg;)?	IF "Yes", Emission Felat meets CAM Criticals.	Is this Unit Subject to CAM 1
EP-AB	Stack for Pig Meber	ECH710	(3 Mcking Fantste Fig (Metal Products)	N/A	BOM.	a	0	10	304009102	1.9	FRE	PM	19.00	83	19.00	19.18	Yes	Y≃	N/A Exempt from CAM stress subject to past, 1990 NSPS or NESHAF	P No	No	No	N/A Exempt from CAM since subject to post 1998 NSPS or RESHAP
EP-AD	Stack for #1 Melter	EE34726	a i Mehing Kanzoer (Melal Products)	N/A	NMA	٥		10	30400102	t.B	FPLE	PM	19,00	83	19.00	19.18	Yes	Yes	NA Example from CAM since subject to post 1890 NSPS or NESHAR	P No	No	No	N/A Exempt from CAM since autoject to post 1990 NSPS or HESHAP
EP-AE	Stack for #1 Holder	EC#740	91 Holding Furnace (Metal Produce)	N/A	N/8A,	0	0	10	30100102	1.9	FIRE	PM	19.00	83	19.00	19.18	Yes	Yes	M/A Exempt from CAM since subject to post 1990 NSPS or NESHAI	P No	No	Na	N/A Exempt from CASI amon subject to post 1990 NSPS or NEEHJAP
ØP-AF	Stack for #2. Meher	EU4750	#2 Mcking Fransice (Metal Products)	N/A	NA	0	q	10	30400102	1.9	FIRE	PM	19.00-	8 3	19.00	19.15	Yes	Yes	N/A Exempt, from CAM alreas autojact to parel, 1990; NSPS or NESHAS	P No	No	No No	N/A Exempt from CAM since subject to post 1999 NSP9 or NESHAP
EP-AO	Stuck for VI. Holder	E114760	n) Holifog Platect (Nictal Products)	N/A	N/A	0	0	10	30400902	6.8	FRE	PN	19,00	5 3	19.00	19.18	Yes	Yes	20'A Everyot from CAM since subject to post 1990 NSPS or NESHAS	P No	Na	No	N/A Exempt from CAM since autifact to post 1990 NSPS or NESHAP
EP-AII	Stack for #4 Meher	EU47N)	44 Mcklog Parastee (Metal Products)	N/A	N.SA.		a	10	30400102	1,9	FPE	PM	19.00	83	19.00	19:18	Yes	Yes	N/A Exampl from CAM since publish to post 1990 NSPS or NESMAN	P No	No	Na	N/A Exampl from CAM since subject to post 1990 //SP8 or NESHAP
EP-Al	Stack for #4 Wolder	EU/180	#4 Holithy Functor (Aletti Products)	N/A	N/A	0	0	10	36400102	1.0	FRE	PM	19,00	83	19.00	19.15	Yes	Yes	N/A Exercipt from CAM since adoject to post 1890 NSPS or NESHAS	No No	Na	Na	N/A Exempt from CAM since autopod to post (990 NSPS or NESHAP)
EP-AN	Stack for Fig Meher #2	21/4/230	v5 Pig Meter (Meta) Pytchura)	N/A	N/A	0		10	30100102	1.0	FIRE	PM	19.00	83	19,00	19,18	Yes	Yes	N/A Exempt from CAM strong subject to good 1990 NSPS or NESHAI	P No	No No	Na	N/A Elempt from CAM since subject to post 1990 NSPS or NESHAP
EP-BA	Stack for Red AND #1 Mcker	519140	#1 Charge Farrance (Red MIII)	N/A	N/A	· c	a	10	30400102	1,9	FRE	PM	19.00	83	19.00	19.18	Yes	Yes	X/A Exampl from CAM since subject to good 1990 NSPS or NESHAI	P No	No No	Na	N/A Exempt from CAM since subject to post 1160 HSPS or NESHAP
EP-88	Stack for East 1400 #1 Hoteler	EURS50	93 Halting Partace (Bod Mid)	N/A	NA	0	0	14	30400102	1.0	FRE	PM	19,00	83	19.00	16.15	Yes	Yes	NA Exempt from CAM since subject to good 1890 MSPS or NESHAS		lia	Na	N/A Exempt from CAN sings subject to past 1990 NSPS or MESHAP
RF-BC	Stack for Rud Mtd #2 Meber	E19360	62 Clarge Fernice (Rod (AR)	N/A	N/A	0		10	36400102	1.9	FRE	PM	19.00	83	19,00	19.18	Yes	Yes	H'A Evernot from CAM place subject to good 1990 NSPS or NESHAI	p No	No	No	N/A Elempt from CAM since subject to post 1990 NSPS or NESHAP
EF-213	Stock for Rod Mill #2 Halder	P19870	#4 Holding Fermes (Red #43)	N/A	N/A.		٥	ю	33400102	1,9	FRICE	Plur	19.00	83	19.00	19.18	Yesi	Yes	N/A Elempt from CAM since subject to yout 1990 NSPS or NESHAX	No No	Na	No.	N/A Estrapt from CAM shoe subject to post 1998 NSPS or NESHAP
er-sit	#5 Rod Mill Holder	EU4190	Cone Custing Remote	N/A	NA	0	7	5	30400102	1.0	Pend	PM	9.50	42	9.50	12.05	Yes	Yez	IVA Elempt from CAM since subject to post 1890 NSPIS or NESHAS	P 320	No.	No	N/A Exempt from CAM sinon subject to post 1900 NSPS of NESHAP
EP-DW	Potline Crusher	new - EUSOD)	Follos Crusher	CD-DW	18	100	99	3	35300310	0,11	FERE	PM	0.55	2	0.01	12.06	Yes	Yes	Yes	No.	No No	No	Mist Subject to CAM
			Notary Lake Piorner			100	263	40	30300312	0.12		PN	4.60	21	0,06	42,53	Yes	Yes	Yea	H2	t ka	No	Not Subject to CAM
		nee - F1E1 La				100	90	40	30300312	0.12	l	Plik	4.00)	21	0.06	42.53	Yes	Yes	Yes	No	Na	Mo	Not Subject to CAM
ion ton	Actorda Patale Economia		Taxotable Vibrating Compactor			100	94		30300312	0.12	Sea role EP-86	PM	4.90	21	0.06	42.53	Yes	Yes	Yes	is .	No	No	Red; Subject to CAM
127-100	Albor Fille Clacks	new - P15139	Pisch Welgh Put	CD-100	071	100	95	40	30300313	9.12	through EP-79.	PNA PNA	4.80	21	0,06	42.53 42.53	Yes	Yes	Yaq Y48	No Ro	No No	No tso	Not Subject to CAM
-		nen -1216150		┥		100	99	40	30300312	9,12	1	PM.	4.80	21	2.05	42.53	Yes	Yes	Yes	Ho Ho	No No	Ng Ng	Not Subject to CAM Not Subject to CAM
		new - FLE160		1		100		40	56900312	9.12		PM	4.80	21	0.06	42.53	Yes	Yes	Yea	No.	Na	No.	Not Subject to CAM
		new - 1415230				100	99	40	58300312	0.12		PM	4.80	21	2.06	42.53	Yes	Yes	Yes	₩o	No	No	Not Subject to CAM
-			Serrey Conseyor]		100	90	40	38300312	0.12	1	PM	4.80	21	0.06	42.53	Yes	Yes	Yes	No	No	Na Na	Not Subject to CAM
- 1			Server Conveyor	1		100	99	40	38300312	0.12	l	PM	4.80	Z1	0.06	42.53	Yea	Yes	Yeq	No	No	Ho	Not Subject to CAM
EP-104	Fraction Handling		Skrew Cnaveyor	CD-101	18		90	40	38000312		See note EP-65	PM	4.80	21	0.06	42.53	Yes	Yes	Yes	No	No) des	Not Subject to CAM
			Screw Conseyor Serew Conseyor			100	99	40	30300312	0.12	through EP-79.	PM	4.80	21	0.05	42.53	Yes	Yes	Yea	No	No	No	Not Subject to CAM
			Screw Conveyor	-		100	90	40	38803312	0.12	l	PM	4.80	21	0:05	42.53	Yes.	Yes	Yes	No	No	No	Not Subject to CAM
	ı	new -21/5270				100		40	36300312	0.12	1	PM	4.80	21	0,05	47.53	Yes	Yes	Yes	No	No	No	Not Bubject to CAM
	***		Screw Conveyor			100	99	#\ #0	38300312	0.12		PM	4.80	21	0.05	42.53	Yes. Yes	Yes. Yes	Yea Yea	No No	No No	No No	Not Subject to CAM Not Subject to CAM
			Serrer Countype	-		100		40	39300312	0.12	l	PM	4.80	21	0.05	42.53	Yes	Yes	Yes	No No	No.	No No	Not Subject to CAM
EP-161	Proportioning System	acw - E15339		CD-102	18	100		40	33300312	0,12	Sea rate EP-85	PM	4,00	21	0.06	42.53	Yes	Yes	Yea	No.	Na	Ha	Not Subject to CAM
L		new - 818330	Probesting Server Conseyor			100		40	39300312	0.12	through EP-79.	PkI	4.60	21	0.05	42.53	Yes	Yes	Yes	No.	No	No	Hol Subject to CAM
EP-108	Phase 1 & 2 Red Brush Station	ner - FIESK)	Rod Brash Station	CD-108	18	100	(6)	40	33300312	0.12	1	PM	4,50	21	0.05	42.53	Yes	Yes	Yes	No	Ho	No	Hot Subject to CAM
	Phase 3 Red Break Station		Red Brush Station	CD-109	19		96	40	39300312	0.12		Phi	4.80	21	9,25	42.53	Yes	Yes	Yes	No No	Na	No	Not Subject to CAM
EF-110		New - EU5420	Annie Cristing	CD-110	18	100	96	12.24	30300312	D.DA		PM	0,48	2	0.00	22.01	Yes	Yes	Ye	No No	[ło	No	Not Subject to CAM
EP-111	Anode Saw Red 3682 Holding Parasce # 6		No permit sequired,	CD-111		+				<u> </u>						ļ							
EP-112			Red Mil. 2 Holding Farmers # 6 Red Mil. 2 Holding Farming # 7	+	N/A N/A	100	90		38300312	 	Permit # 122007 -	PM			 	ļ	ļ	ļ	<u> </u>			ļ	
ET-115		h New AFUSCO	Fresh Ore Material Handles, 136 Intercedible Site		N/A	100			39300312	 	1.05	PM		ļ	 	 	<u></u>	ļ	↓	 			-
EP-116			Red MED Holding Person # 8	HIA	N/A	100	99	1.27	36500312	0.3634	Permit # 842313-	PM	3.17			14,88	- Var	You	Yes	Nn Nn	ke	No	Not Stated in CAIA
EP-117	Red MER 1 Holding Extract #9		Rod Mili 3 Holding Furnare #9	N/A			99	8.27	39300312	0,3834					12,03		Yes		Yes	No No	No No	Ng Ng	Not Subject to CAM
			<u> </u>																				

ATTACHMENT 5

Compliance Assurance Monitoring (CAM) Applicability Analysis

40 CFR PART 64 COMPLIANCE ASSURANCE MONITORING APPLICABILITY

DETERMINATION

This section presents the basis for the applicability determination for 40 CFR 64 Compliance Assurance Monitoring. CAM requirements were not required to be addressed in the initial operating permit application, but CAM requirements must be addressed in the application for a permit renewal.

CAM BACKGROUND

The U.S. Environmental Protection Agency (EPA) promulgated the CAM rule, 40 CFR 64, on October 22, 1997. The purpose of this rule, according to EPA, is "to provide a reasonable assurance of compliance with applicable requirements" pursuant to the Clean Air Act Amendments of 1990.

Per 40 CFR 64.2(a), CAM applies to emission units that satisfy all of the following criteria:

- 1. Emission units subject to an emission limitation or standard for a regulated air pollutant (or a surrogate thereof) except emission limitations or standards proposed by the Administrator after November 15, 1990 pursuant to Section 111 (includes NSPS requirements) or 112 (includes NESHAP requirements) of the Clean Air Act (CAA).
- 2. Emission units that use a control device to achieve compliance with any such emission limitation or standard.
- 3. Emission units that have potential pre-control device emissions of the regulated air pollutant that are equal to or greater than 100 percent of the amount, in tons per year, required for a source to be classified as a major source.

40 CFR 64 defines emission unit using the definition provided in 40 CFR 70. Emission unit as it is defined in 40 CFR 70.2 means "any part or activity of a stationary source that emits or has the potential to emit any regulated air pollutant or any pollutant listed under section 112(b) of the Act". 40 CFR 64 defines control device as "equipment, other than inherent process equipment, that is used to destroy or remove air pollutant prior to discharge to the atmosphere." Finally, 40 CFR 64 defines inherent process equipment as "equipment that is necessary for the proper or safe functioning of the process, or material recovery equipment that the owner or operator documents is installed and operated primarily for purposes other than compliance with air pollution regulations".

Per 40 CFR 64.2(b)(1), emission limitations or standards proposed after November 15, 1990 pursuant to Section 111 of the Clean Air Act (i.e. New Source Performance Standards (NSPS)) or 112 of the Clean Air Act (i.e. National Emission Standards for Hazardous Air Pollutants (NESHAPs)) do not constitute emission standards for purposes of evaluating whether an emission unit meets CAM Criteria #1.

If an emission unit is determined to be subject to CAM, pursuant to 40 CFR 64.3, Magnitude 7 Metals is required to design monitoring to obtain data for one or more indicators of emission-control performance for the control device and any associated capture system such as ducts and fans. Further, pursuant to 40 CFR 64.4, the monitoring designed as required by 40 CFR 64.3 is required to be summarized in a CAM plan, and the CAM plan must be submitted to the MDNR as part of the operating permit renewal application.

CAM ANALYSIS

CAM must be evaluated on an individual pollutant basis. Emission units that satisfy all three criteria listed above for a specific regulated pollutant are subject to CAM for the control device. Prior to evaluating pollutant-specific CAM requirements, Magnitude 7 Metals eliminated from CAM consideration all pollutants with limits established pursuant to a MACT or NSPS. Refer to Attachment 3 for a summary of the unit-specific emission limits. For Magnitude 7 Metals, the non-MACT or non-NSPS regulated pollutants include PM, PM₁₀, VOC, CO, and SO₂.

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Refer to Attachment 3 for a summary of the emission units with SO₂ limits. None of the emission units subject to an SO₂ emission limit use a control device for SO₂ (Criteria #2 as listed above). Therefore, Magnitude 7 Metals does not have any emission units that trigger CAM requirements for SO₂.

VOC

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VOC is regulated under Construction permit 0298-001 for the emission units associated with the green mill. Refer to Attachment 3 for a summary of the emission units with VOC limits. None of the emission units subject to a VOC emission limit use a control device for VOC (Criteria #2 as listed above). Therefore, Magnitude 7 Metals does not have any emission units that trigger CAM requirements for VOC.

CO

CO is regulated under PSD construction permit 102004-001A for the potlines. Refer to Attachment 3 for a summary of the emission units with CO limits. None of the emission units subject to a CO emission limit use a control device for CO (Criteria #2 as listed above). Therefore, Magnitude 7 Metals does not have any emission units that trigger CAM requirements for CO.

PM and PM₁₀

PM and PM₁₀ are regulated under 10-6.400 and under PSD construction permit 102004-001A, respectively. Refer to Attachment 3 for a summary of the emission units with PM and/or PM₁₀ limits. Magnitude 7 Metals adopted a tiered approach to evaluating which emission units at the facility require CAM. First, Magnitude 7 Metals determined the emission units that meet CAM

Criteria #1 (i.e. emission units are subject to an emission limitation or standard for a regulated air pollutant). Second, for units that meet CAM Criteria #1, Magnitude 7 Metals determined the emission units that meet CAM Criteria #2 (i.e. emission units use a control device to achieve compliance with the emission limitation or standard). Finally, for units that meet CAM Criteria #1 and CAM Criteria #2, Magnitude 7 Metals determined the emission units that meet CAM Criteria #3 (emission units with uncontrolled PTE greater than the major source threshold).

In order for CAM Criteria #2 to be satisfied, an emission unit subject to an emission standard must require a control device to meet the emission standard, where control device is defined as equipment, other than inherent process equipment, that is used to destroy or remove air. pollutant prior to discharge to the atmosphere." It is possible for a piece of process equipment to be perceived as a control device, simply because it accomplishes emission reduction. However, equipment that is inherent to the process operation that achieves emission reduction as a cobenefit is not considered control equipment. This is true even if the co-benefit is required to meet an emission standard. For example, consider a material transfer point that generates PM and is subject to a PM emission standard pursuant to the process weight rule. Consider that the PM generated during the material transfer is exhausted to a dust collection system and captured by a fabric filter that recovers the PM back to the process. In this case, the primary purpose of the dust collection system is to recover material back to the process. Without the dust collection system, the emission unit cannot comply with the process weight rule, but the primary purpose of the dust collection system is product recovery and not emission control. The PM limit is not the reason that the dust collection system is operated, and in the absence of the PM limit, the dust collection system would continue to operate.

Magnitude 7 Metals operates a number of units with that meet CAM criteria #1 and #3, but that do not meet CAM Criteria #2. The next sections describe these units.

A significant number of the material handling emission units have baghouses as part of pneumatic (air-driven) systems. The emission points with baghouses that are associated with pneumatic systems are listed in Table 1.

TABLE 1. SUMMARY OF EMISSION POINTS ASSOCIATED WITH PNEUMATIC SYSTEMS

Emission Point ID	Emission Point Description	Control	Control Device
ED 02	Divon I Inlanding	Device ID CD-3	Description Paghouse
EP-03	River Unloading	CD-6	Baghouse
EP-06	Fresh Ore Material Handling	 	Baghouse
EP-15	Fresh Ore Material Handling	CD-15	Baghouse
EP-16	Fresh Ore Material Handling	CD-16	Baghouse
EP-17	Fresh Ore Material Handling	CD-17	Baghouse
EP-18	Fresh Ore Material Handling	CD-18	Baghouse
EP-19	Fresh Ore Material Handling	CD-19	Baghouse
EP-20	Fresh Ore Material Handling	CD-20	Baghouse
EP-21	Fresh Ore Material Handling	CD-21	Baghouse
EP-22	Fresh Ore Material Handling	CD-22	Baghouse
EP-25	Fresh Ore Material Handling	CD-25	Baghouse
EP-26	Reacted Ore Material Handling	CD-26	Baghouse
EP-27	Reacted Ore Material Handling	CD-27	Baghouse
EP-28	Reacted Ore Material Handling	CD-28	Baghouse
EP-29	Reacted Ore Material Handling	CD-29	Baghouse
EP-30	Reacted Ore Material Handling	CD-30	Baghouse
EP-31	Reacted Ore Material Handling	CD-31	Baghouse
EP-32	Reacted Ore Material Handling	CD-32	Baghouse
EP-33	Reacted Ore Material Handling	CD-33	Baghouse
EP-34	Reacted Ore Material Handling	CD-34	Baghouse
EP-35	Reacted Ore Material Handling	CD-35	Baghouse
EP-36	Reacted Ore Material Handling	CD-36	Baghouse
EP-37	Reacted Ore Material Handling	CD-37	Baghouse
EP-38	Reacted Ore Material Handling	CD-38	Baghouse
EP-39	Reacted Ore Material Handling	CD-39	Baghouse
EP-40	Reacted Ore Material Handling	CD-40	Baghouse
EP-41	Reacted Ore Material Handling	CD-41	Baghouse
EP-42	Reacted Ore Material Handling	CD-42	Baghouse
EP-43	Reacted Ore Material Handling	CD-43	Baghouse
EP-44	Reacted Ore Material Handling	CD-44	Baghouse
EP-45	Reacted Ore Material Handling	CD-45	Baghouse
EP-55	Electrolyte Recovery	CD-55	Baghouse
EP-56	Electrolyte Recovery	CD-56	Baghouse
EP-57	Fresh Ore Material Handling	CD-50	Baghouse
		CD-80	Baghouse
EP-80	Fresh Ore Handling		
EP-81	Fresh Ore Handling	CD-81	Baghouse

In a pneumatic system, a low pressure blower supplies air to lift material (i.e. fresh alumina ore, reacted alumina ore, or electrolytes recovered from the anodes) off the floor of the air slide. The material flows downhill through an air gravity conveyor. A fan on a baghouse pulls the material-

laden air through the baghouse catching any material that may be in the air stream and exhausting the air stream out through a filter. The baghouse is physically located between the fan and blower, and together the blower and fan provide the pneumatic power source for the material transfer. The baghouse is an integral part of the pneumatic system, and the pneumatic system requires interlocks between the process blower and the dust collector fan that do not allow the process to be operated without the dust collector. The interlocks are either hardwired between the blower and fan or the interlocks are maintained by an electronic Programmable Logic Controller (PLC) system.

Hardwire interlocks for a process mean that multiple pieces of equipment are wired such that the equipment operates together and a single switch either out in the field or in the Motor Control Center (MCC) triggers operation of all equipment hardwired together. If any of the equipment that is hardwired malfunctions, all hardwired equipment shuts down. Interlocks maintained by a PLC system mean that the operation of the blower and fan are controlled electronically, and the electronic code is written such that the operation of the blower and fan are contingent upon each other. If a piece of equipment that is interlocked in the PLC system shuts down, all other interlocked equipment shuts down. Bypassing a hardwire interlock would require rewiring of the equipment. Bypassing a PLC interlock would require alterations to the electronic code.

Two material handling emission units have baghouses as part of vacuum systems. The emission points with baghouses that are associated with vacuum systems are listed in Table 2.

TABLE 2. SUMMARY OF EMISSION POINTS ASSOCIATED WITH VACUUM SYSTEMS

Emission Point ID	Emission Point Description	Control Device ID	Control Device Description
EP-01	River Unloading	CD-1	Baghouse
EP-02	River Unloading	CD-2	Baghouse

The vacuum systems listed in Table 2 are both associated with unloading of alumina ore off the river barge. A hose is inserted into the alumina ore on the barge, and the alumina ore is sucked up for transfer to the plant. The blower that creates the vacuum that allows the alumina ore to be sucked off of the barge also pulls the material-laden air through the baghouses for river unloading catching any material that may be in the air stream and exhausting the air stream out through a filter. Since the vacuum system uses the same blower to pull material off the barge and to pull air through the dust collector, the dust collector is an integral part of the vacuum system. If the dust collector malfunctions, the blower shuts off, which shuts down the entire vacuum system.

As described above, the baghouses associated with pneumatic and vacuum systems are an integral part of process operation. It should also be mentioned that the baghouses for these processes are designed to recover material that collects in the baghouse filters and return it back to downstream process equipment via filter blowback. The material recovery is essential for decreasing raw or in-process material costs.

In summary, baghouses that are part of pneumatic systems or vacuum systems are inherent to the operation of the material transfer processes and provide for product recovery. Therefore, the

baghouses do not meet CAM Criteria #2 (i.e. the baghouses do not meet the 40 CFR 64 definition of control device), and the baghouses are not subject to CAM requirements.

In addition to the pneumatic and vacuum systems, other emission units have baghouses as part of an in-line fluidized bed scrubber/baghouse combination that are inherent to the operation of the process. These in-line fluidized bed scrubber/baghouses are listed in Table 3.

TABLE 3. SUMMARY OF EMISSION POINTS WITH INHERENT CONTROL DEVICES

Emission Point ID	Emission Point Description	Control Device ID	Control Device Description
EP-61	Potline I & II Stack	CD-61/61A	40 In line fluidized bed scrubbers/baghouses
EP-62	161 Unit Stack	CD-62	8 In line fluidized bed scrubbers/baghouses
EP-63	· 162 Unit Stack	CD-63	8 In line fluidized bed scrubbers/baghouses
EP-98	Carbon Bake 1 Stacks (64 total)	CD-98	4 In line fluidized bed scrubbers/baghouses
EP-99	Carbon Bake 2 Stacks (64 total)	CD-99	4 In line fluidized bed scrubbers/baghouses
EP-AA	Carbon Bake 3 Stack	CD-AA	4 In line fluidized bed scrubbers/baghouses

The emission points listed in Table 3 are the stacks for the potlines and carbon anode baking processes. All of the emission units associated with the potlines and carbon anode baking processes emit fluorides, and the fluoride emissions from these processes are regulated under 40 CFR 63, Subpart LL. In order to comply with the fluoride emission limits established in 40 CFR 63, Subpart LL, Magnitude 7 Metals operates in-line fluidized bed scrubbers/baghouses. A diagram of one of the in-line fluidized bed scrubbers/baghouses is provided at the end of this CAM applicability analysis.

The in-line fluidized bed scrubbers/baghouses utilize fresh alumina ore as the fluidized bed material to remove fluorides in the exhaust captured from the potlines or carbon baking processes. Alumina ore that is fed to a potline requires the addition of fluoride to maintain the process chemistry balance. By sending the fresh alumina ore through the scrubbers and thereby adding fluorides to the alumina ore prior to feeding the alumina ore to the potlines, Magnitude 7 Metals reduces the cost for raw material fluoride compounds that would otherwise need to be added to the alumina ore. All of Magnitude 7 Metals's scrubbers use fresh alumina ore as the fluidized bed material. The ore that leaves the scrubber is referred to as reacted ore, and the reacted ore is fed to the potlines. The fresh alumina ore that is the fluidized bed material in the scrubbers is considered a process material, and the scrubber serves both as a piece of control equipment and as a piece of process equipment.

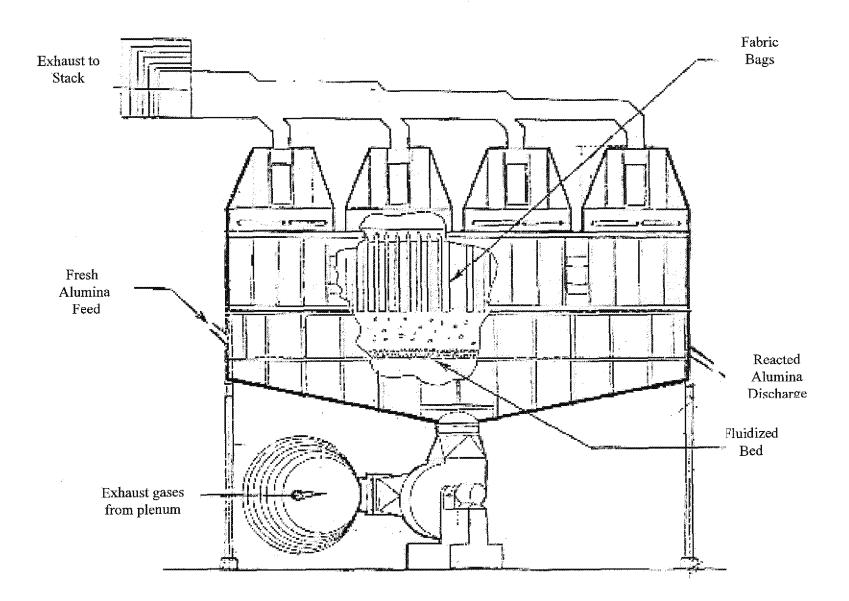
Similar to the baghouses for material transfer, the baghouses that are in-line with the fluidized bed scrubbers recover alumina ore and recycle ore back to the process to prevent the loss of valuable raw material.

In summary, the in-line fluidized bed scrubbers/baghouses are required to comply with the 40 CFR Part 63, Subpart LL fluoride emission limit. The scrubbers are also integral to the process operation in that fluorides that are necessary for the potline process chemistry balance are added to the fresh alumina ore in lieu of purchasing fluoride compounds to add to the fresh ore. The inline baghouses recover raw material back to the process. Since the in-line fluidized bed scrubbers/baghouses are required for compliance with a NESHAP and are an integral part of the manufacturing process, the in-line fluidized bed scrubbers/baghouses do not meet CAM Criteria #2 (i.e. the in-line fluidized bed scrubbers/baghouses are therefore not subject to CAM requirements.

Based on a review of emission units that trigger all three CAM criteria, 17 baghouses are subject to CAM requirements. Table 4 provides a summary of the baghouses that trigger CAM requirements. Attachment 6 provides a CAM template for the baghouses that trigger CAM. Magnitude 7 Metals intends to wait to receive approval of the CAM Plan template prior to completing CAM Plans for the other 16 baghouses.

TABLE 4. SUMMARY OF EMISSION POINTS AND ASSOCIATED CONTROL DEVICES SUBJECT TO CAM

Emission Point ID	Emission Point Description	Control Device ID	Control Device Description
EP-04	Railcar Unloading	CD-4	Baghouse
EP-05	Fresh Ore Material Handling	CD-5	Baghouse
EP-07	Fresh Ore Material Handling	CD-7	Baghouse
EP-08	Fresh Ore Material Handling	CD-8	Baghouse
EP-09	Reacted Ore Material Handling	CD-9	Baghouse
EP-10	Reacted Ore Material Handling	CD-10	Baghouse
EP-11	Fresh Ore Material Handling	CD-11	Baghouse
EP-12	Reacted Ore Material Handling	CD-12	Baghouse
EP-13	Reacted Ore Material Handling	CD-13	Baghouse
EP-14	Fresh Ore Material Handling	CD-14	Baghouse
EP-23	Fresh Ore Material Handling	CD-23	Baghouse
EP-24	Fresh Ore Material Handling	CD-24	Baghouse
EP-46	Electrolyte Recovery	CD-46 and 46A	2 Baghouses
EP-48	Electrolyte Recovery	CD-48	Baghouse
EP-49	Electrolyte Recovery	CD-49	Baghouse
EP-50	Electrolyte Recovery	CD-50	Baghouse
EP-58	Electrolyte Recovery	CD-58	Baghouse



ATTACHMENT 6

Compliance Assurance Monitoring (CAM) Plan Baghouses

Compliance Assurance Monitoring Plan Magnitude 7 Metals, Incorporated – New Madrid, MO

I. Emissions Point/Emission Unit/Control Device

Emission Point ID	Emission Point Description	Emission Unit ID	Emission Unit Description	Control Device ID	Control Device Description
		EU0110	Vibrating Feeder		
		EU0120	Vibrating Feeder		
EP-04	Railcar Unloading	EU0130	Vibrating Feeder	CD-4	018
		EU0140	Screw Conveyor		
		EU0150	Car Shaker		

II. Applicable Regulations, Emission Limit, and Monitoring Requirements

PM limits for Emission Units from 10-6.400 Process Weight Rule PM₁₀ limit for Emission Point set in Attachment B of PSD Permit 2003-11-053

II. Control Device

Baghouse CD-4

The key elements of the baghouse compliance assurance monitoring, including the performance indicator parameter, the performance indicator parameter range, and performance monitoring criteria are summarized in Table 1.

TABLE 1. BAGHOUSE MONITORING SUMMARY

Performance Indicator Parameter	Pressure drop across the baghouse filter system
Performance Indicator Parameter Range	1-13.5 inches of water
Representativeness of Performance Indicator	Magnitude 7 Metals has been conducting weekly pressure drop monitoring in accordance with the existing Title V permit to demonstrate compliance with the PM limits established by 10-6.400. The weekly pressure drop measurements were used to establish the upper and lower bounds of the pressure drop range for the daily pressure drop monitoring that will be used to demonstrate compliance with both the PM limits established by 10-6.400 and PSD Permit 2003-11-053.
Verification of Operational Status of Performance Indicator Measurement Device	The pressure indicating instrument will be calibrated in accordance with manufacturer's recommendations.

QA/QC Practices and Criteria	The dust collector will be operated and maintained in accordance with the Air Control Operations Manual. Pressure drop measurements that indicate a pressure drop outside of the specified performance criteria range will be investigated per AC 5.01 in the Air Control Operations Manual or manufacturer's recommendations. Quarterly inspections of the filter system for leaks, wear or other abnormalities will be completed per AC 5.02 in the Air Control Operations Manual or manufacturer's recommendations.
Performance Indicator Measurement Frequency and Data Collection Procedures	Since the controlled emissions for the emission units are less than the major source threshold, the pressure drop will be recorded once daily. The pressure drop reading may be taken manually by plant personnel or recorded automatically via plant control system computers.

CAM JUSTIFICATION

I. Background

The emission units included in this CAM Plan were determined to subject to CAM, since the emission units meet the three CAM applicability criteria listed in 40 CFR 64. The emission units are controlled by a baghouse (CD-4), and this CAM Plan details the compliance assurance monitoring that will be performed on the baghouse.

II. Rationale for Selection of Performance Indicators

Pressure Drop across the filter system: Per Appendix H of the Operating Permit Application Instructions provided by the Missouri Department of Natural Resources, the pressure drop across the filter system can be used to measure the performance of a baghouse.

III. Rationale for Indicator Range Selection

Pressure Drop across the filter system: Magnitude 7 Metals is required by the current Title V operating permit to monitor the pressure drop across the baghouse on a weekly basis. The historical pressure drop data for the baghouse was reviewed to establish the upper and lower bounds of the pressure drop range for the daily pressure drop monitoring.

While the pressure drop will be monitored to determine if the pressure drop falls in the range observed for the historical data, operation of the baghouse outside of the proposed pressure drop range does not necessarily indicate a change in the efficiency of the baghouse. Magnitude 7 Metals established with the issuance of PSD permit 2003-11-053 that baghouses and their associated fans operate in an on/off manner, and as long as a baghouse is on, the emissions from the baghouse remain constant, as the effluent particle concentration is nearly constant based on the filter design. The U.S. EPA Air Pollution Control Technology Fact Sheets, document numbers EPA-452/F03-024 and EPA-452/F03-025, Achievable Emission Limits further support baghouses being constant outlet devices. The fact sheets state the following.

"For a given combination of filter design and dust, the effluent particle concentration from a fabric filter is nearly constant,.. For this reason, fabric filters can be considered to be constant outlet devices..."

It has been determined that the baghouse is required to meet PM/PM_{10} limits. As long as the baghouse is on, compliance with the PM/PM_{10} limits will be achieved. Therefore, a broad range of pressure drops will indicate that the unit is on and functioning normally. The indicator range for this baghouse was selected based on the full range of pressure drop data available from the monitoring data required by the current Title V permit. A pressure drop reading outside the range included in this CAM plan does **not** indicate an exceedance of the associated limit. Pressure drop readings outside the established range will be treated as an excursion and investigated to determine if further corrective action is required. The steps in the investigation of these excursions, and, if needed, any resulting corrective actions, will be documented.

Per EPA guidance contained in the Compliance Assurance Monitoring Rule Implementation Questions and Responses (January 8, 1998 Memorandum from Steven J. Hitte to Air Program Managers in Regions I-X), Magnitude 7 Metals requests that revisions to the pressure drop range be allowed without requiring a modification to the Title V operating permit. If an excursion outside of the established pressure drop range occurs, an investigation will be conducted and documented to determine if corrective action is required. If the investigation determines that the baghouse is operating properly, the pressure drop range for that baghouse may be modified to include the new data. Documentation of the investigation of excursions used to broaden an indicator range will be kept on file at the site with the CAM plan for the specific unit. A summary of any modifications to the pressure drop range will be submitted with the Title V semi-annual monitoring report for that time period.

CAM TESTING AND IMPLEMENTATION PLAN

I. Test Plan

Pressure Drop across the filter system: Magnitude 7 Metals has been utilizing pressure drop measurements on the baghouse as an indicator of the baghouse performance. In order to fulfill the CAM requirements for the baghouse, Magnitude 7 Metals is increasing the pressure-drop measurement frequency to once per day. Since historical data indicating the performance of the baghouse was used to establish the pressure drop range for the baghouse, no testing is necessary to establish the relationship between the pressure drop range and baghouse performance.

II. Implementation Plan

Pressure Drop across the filter system: No CAM implementation plan is necessary. The infrastructure for operating and maintaining the pressure indicating devices are in place.

CAM Plan Magnitude 7 Metals Aluminum, Incorporated New Madrid, MO

APPENDIX A

The CAM Plan for Baghouse CD-4 is being submitted as a template for the 17 baghouses that will be subject to CAM requirements upon CAM renewal. The CAM Plan document will be the same for each of the remaining baghouses, with the pressure drop range in each plan specific to that baghouse. The pressure drop range documented in the existing monitoring records for each baghouse is summarized in Table 2 below.

TABLE 2. BAGHOUSE PRESSURE DROP RANGE SUMMARY

Baghouse #	Process Step	Pressure Drop Range (inc	hes of water)
		Low	High
CD-4	Railcar Unloading	0.1	13.5
CD-5	Fresh Ore Material Handling	0.5	10
CD-7	Fresh Ore Material Handling	0.02	14
CD-8	Fresh Ore Material Handling	0.01	12
CD-9	Reacted Ore Material Handling	0.35	9
CD-10	Reacted Ore Material Handling	0,5	13.6
CD-11	Fresh Ore Material Handling	0.2	10
CD-12	Reacted Ore Material Handling	0.2	15
CD-13	Reacted Ore Material Handling	0.4	12
CD-14	Fresh Ore Material Handling	0.2	13
CD-23	Fresh Ore Material Handling	0.4	15
CD-24	Fresh Ore Material Handling	0.2	15
CD-46/46A	Electrolyte Recovery	0.04	14.5
CD-48	Electrolyte Recovery	0.3	13.5
CD-49	Electrolyte Recovery	0.5	13
CD-50	Electrolyte Recovery	0.4	12.5
CD-58	Electrolyte Recovery	0.05	11.9

ATTACHMENT 7

February 21, 2006 Letter Addressed to MDNR with Regard to Changes to Butt Cooling Bay Exhaust Requirements

February 21, 2006

Mr. Berhanu Getahun Missouri Department of Natural Resources Air Pollution Control Program Operating Permit Unit P.O. Box 176 Jefferson City, MO 65102

Dear Mr. Getahun:

As part of the December 15, 1980 stipulation and amendment to permit number 0679-008 to 011 for our New Madrid facility, Noranda Aluminum, Inc. (Noranda) constructed a special cleaning room for the spent anodes from Potline 3. The permit requires this Butt Cooling Bay (EU1690) to be vented to Potline 3's dry scrubber system (EP-62 and EP-63) for the first two hours of cooling, with the airflow divided equally between EP-62 and EP-63. The dry scrubber system on Potline 3 consists of a fluidized bed scrubber with filter bags following the scrubber to remove particulate matter. For the remainder of the cooling period, the airflow from the Butt Cooling Bay is routed to a stand-alone conventional baghouse (EP-47).

Noranda has reviewed the operating process and determined that it will be more energy efficient to route the airflow from the Butt Cooling Bay (EU1690) for Potline 3 through the combined scrubber system (EP-62 and EP-63) for the entire cooling period. This will provide equivalent or better control for both fluorides and particulate matter, and will still meet the requirement that the airflow be treated by a conventional baghouse for the remainder of the butt cooling period. Noranda will no longer switch the airflow from the combined scrubber system to the stand alone conventional baghouse after the first two hours of cooling, thereby allowing EP-47 to be taken off-line and save the electrical costs of it's operation.

The stand-alone baghouse (EP-47) has a total airflow of 150,000 cubic feet per minute, made of 3 modules containing 576 - 22 oz. polyester bags that are cleaned with a sonic horn. The baghouses associated with Potline 3's scrubber (EP-62 and EP-63) have a total airflow of 700,000 cubic feet per minute, made of 16 modules containing 576 - 22 oz. polyester bags that are cleaned with a sonic horn.

After reviewing the current permit requirements, Noranda feels this change can be made without permit modifications, and is submitting this letter as notification to MDNR of this modification of operations. Please provide written confirmation that MDNR concurs with this approach.

Noranda submitted a Title V Renewal Application on October 7, 2005 for all four Part 70 operating permits at the facility. Upon receipt of concurrence from MDNR that this

change does not require permit modification, Noranda will submit the appropriate updates to the Title V Renewal Application package to reflect this operational change.

Please call me at (573) 643-2361, extension 2126, if you have questions or comments on this notification.

Sincerely,

Don Backfisch Environmental Superintendent